

### QUALITY CONTROL DATA

Project 18856/51541 STEADY SIMMONS  
Pace Project No 92285073

QC Batch: MSV/35444 Analysis Method: EPA 8260  
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV Low Level SC  
Associated Lab Samples 92285073001, 92285073002

METHOD BLANK 1660117 Matrix Water  
Associated Lab Samples: 92285073001, 92285073002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	0.33	02/04/16 14:07	
1,1,1-Trichloroethane	ug/L	ND	1.0	0.48	02/04/16 14:07	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	0.40	02/04/16 14:07	
1,1,2-Trichloroethane	ug/L	ND	1.0	0.29	02/04/16 14:07	
1,1-Dichloroethane	ug/L	ND	1.0	0.32	02/04/16 14:07	
1,1-Dichloroethene	ug/L	ND	1.0	0.56	02/04/16 14:07	
1,1-Dichloropropene	ug/L	ND	1.0	0.49	02/04/16 14:07	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	0.33	02/04/16 14:07	
1,2,3-Trichloropropane	ug/L	ND	1.0	0.41	02/04/16 14:07	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	0.35	02/04/16 14:07	
1,2-Dibromo-3-chloropropane	ug/L	ND	2.0	2.0	02/04/16 14:07	
1,2-Dichlorobenzene	ug/L	ND	1.0	0.30	02/04/16 14:07	
1,2-Dichloroethane	ug/L	ND	1.0	0.24	02/04/16 14:07	
1,2-Dichloropropane	ug/L	ND	1.0	0.27	02/04/16 14:07	
1,3-Dichlorobenzene	ug/L	ND	1.0	0.24	02/04/16 14:07	
1,3-Dichloropropane	ug/L	ND	1.0	0.28	02/04/16 14:07	
1,4-Dichlorobenzene	ug/L	ND	1.0	0.33	02/04/16 14:07	
2,2-Dichloropropane	ug/L	ND	1.0	0.13	02/04/16 14:07	
2-Butanone (MEK)	ug/L	ND	5.0	0.96	02/04/16 14:07	
2-Chlorotoluene	ug/L	ND	1.0	0.35	02/04/16 14:07	
2-Hexanone	ug/L	ND	5.0	0.46	02/04/16 14:07	
4-Chlorotoluene	ug/L	ND	1.0	0.31	02/04/16 14:07	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	5.0	0.33	02/04/16 14:07	
Acetone	ug/L	ND	25.0	10.0	02/04/16 14:07	
Benzene	ug/L	ND	1.0	0.25	02/04/16 14:07	
Bromobenzene	ug/L	ND	1.0	0.30	02/04/16 14:07	
Bromochloromethane	ug/L	ND	1.0	0.17	02/04/16 14:07	
Bromodichloromethane	ug/L	ND	1.0	0.18	02/04/16 14:07	
Bromoform	ug/L	ND	1.0	0.26	02/04/16 14:07	
Bromomethane	ug/L	ND	5.0	0.29	02/04/16 14:07	
Carbon tetrachloride	ug/L	ND	1.0	0.25	02/04/16 14:07	
Chlorobenzene	ug/L	ND	1.0	0.23	02/04/16 14:07	
Chloroethane	ug/L	ND	1.0	0.54	02/04/16 14:07	
Chloroform	ug/L	ND	1.0	0.14	02/04/16 14:07	
Chloromethane	ug/L	ND	1.0	0.11	02/04/16 14:07	
cis-1,2-Dichloroethene	ug/L	ND	1.0	0.19	02/04/16 14:07	
cis-1,3-Dichloropropene	ug/L	ND	1.0	0.13	02/04/16 14:07	
Dibromochloromethane	ug/L	ND	1.0	0.21	02/04/16 14:07	
Dibromomethane	ug/L	ND	1.0	0.21	02/04/16 14:07	
Dichlorodifluoromethane	ug/L	ND	1.0	0.21	02/04/16 14:07	
Diisopropyl ether	ug/L	ND	1.0	0.12	02/04/16 14:07	

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QUALITY CONTROL DATA

Project 18856/51541 STEADY SIMMONS  
Pace Project No.: 92285073

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
METHOD BLANK 1660117						
Associated Lab Samples 92285073001, 92285073002						
Ethylbenzene	ug/L	ND	1.0	0.30	02/04/16 14:07	
Hexachloro-1,3-butadiene	ug/L	ND	1.0	0.71	02/04/16 14:07	
m&p-Xylene	ug/L	ND	2.0	0.66	02/04/16 14:07	
Methyl-tert-butyl ether	ug/L	ND	1.0	0.21	02/04/16 14:07	
Methylene Chloride	ug/L	ND	2.0	0.97	02/04/16 14:07	
Naphthalene	ug/L	ND	1.0	0.24	02/04/16 14:07	
o-Xylene	ug/L	ND	1.0	0.23	02/04/16 14:07	
p-Isopropyltoluene	ug/L	ND	1.0	0.31	02/04/16 14:07	
Styrene	ug/L	ND	1.0	0.26	02/04/16 14:07	
Tetrachloroethene	ug/L	ND	1.0	0.46	02/04/16 14:07	
Toluene	ug/L	ND	1.0	0.26	02/04/16 14:07	
trans-1,2-Dichloroethene	ug/L	ND	1.0	0.49	02/04/16 14:07	
trans-1,3-Dichloropropene	ug/L	ND	1.0	0.26	02/04/16 14:07	
Trichloroethene	ug/L	ND	1.0	0.47	02/04/16 14:07	
Trichlorofluoromethane	ug/L	ND	1.0	0.20	02/04/16 14:07	
Vinyl acetate	ug/L	ND	2.0	0.35	02/04/16 14:07	
Vinyl chloride	ug/L	ND	1.0	0.62	02/04/16 14:07	
Xylene (Total)	ug/L	ND	2.0	0.66	02/04/16 14:07	
1,2-Dichloroethane-d4 (S)	%	95	70-130		02/04/16 14:07	
4-Bromofluorobenzene (S)	%	104	70-130		02/04/16 14:07	
Toluene-d8 (S)	%	117	70-130		02/04/16 14:07	

LABORATORY CONTROL SAMPLE: 1660118

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	47.6	95	70-130	
1,1,1-Trichloroethane	ug/L	50	55.0	110	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	46.3	93	70-130	
1,1,2-Trichloroethane	ug/L	50	51.1	102	70-130	
1,1-Dichloroethane	ug/L	50	49.7	99	70-130	
1,1-Dichloroethene	ug/L	50	51.4	103	70-130	
1,1-Dichloropropene	ug/L	50	55.8	112	70-130	
1,2,3-Trichlorobenzene	ug/L	50	39.1	78	70-130	
1,2,3-Trichloropropane	ug/L	50	48.2	96	70-130	
1,2,4-Trichlorobenzene	ug/L	50	42.9	86	70-130	
1,2-Dibromo-3-chloropropane	ug/L	50	46.9	94	70-130	
1,2-Dichlorobenzene	ug/L	50	43.5	87	70-130	
1,2-Dichloroethane	ug/L	50	48.3	97	70-130	
1,2-Dichloropropane	ug/L	50	49.8	100	70-130	
1,3-Dichlorobenzene	ug/L	50	46.9	94	70-130	
1,3-Dichloropropane	ug/L	50	51.4	103	70-130	
1,4-Dichlorobenzene	ug/L	50	47.9	96	70-130	
2,2-Dichloropropane	ug/L	50	52.6	105	70-130	
2-Butanone (MEK)	ug/L	100	110	110	70-130	

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### QUALITY CONTROL DATA

Project 18856/51541 STEADY SIMMONS  
Pace Project No 92285073

LABORATORY CONTROL SAMPLE: 1660118

Parameter	Units	Spike Conc	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2-Chlorotoluene	ug/L	50	50.3	101	70-130	
2-Hexanone	ug/L	100	96.1	96	70-130	
4-Chlorotoluene	ug/L	50	46.0	92	70-130	
4-Methyl-2-pentanone (MIBK)	ug/L	100	101	101	70-130	
Acetone	ug/L	100	104	104	70-130	
Benzene	ug/L	50	50.9	102	70-130	
Bromobenzene	ug/L	50	46.6	93	70-130	
Bromochloromethane	ug/L	50	59.4	119	70-130	
Bromodichloromethane	ug/L	50	52.2	104	70-130	
Bromoform	ug/L	50	46.9	94	70-130	
Bromomethane	ug/L	50	64.2	128	70-130	
Carbon tetrachloride	ug/L	50	54.0	108	70-130	
Chlorobenzene	ug/L	50	46.9	94	70-130	
Chloroethane	ug/L	50	59.4	119	70-130	
Chloroform	ug/L	50	52.3	105	70-130	
Chloromethane	ug/L	50	48.3	97	70-130	
cis-1,2-Dichloroethene	ug/L	50	50.1	100	70-130	
cis-1,3-Dichloropropene	ug/L	50	52.7	105	70-130	
Dibromochloromethane	ug/L	50	52.5	105	70-130	
Dibromomethane	ug/L	50	49.1	98	70-130	
Dichlorodifluoromethane	ug/L	50	41.0	82	70-130	
Diisopropyl ether	ug/L	50	51.7	103	70-130	
Ethylbenzene	ug/L	50	47.3	95	70-130	
Hexachloro-1,3-butadiene	ug/L	50	43.3	87	70-130	
m&p-Xylene	ug/L	100	94.5	94	70-130	
Methyl-tert-butyl ether	ug/L	50	58.8	118	70-130	
Methylene Chloride	ug/L	50	55.4	111	70-130	
Naphthalene	ug/L	50	39.3	79	70-130	
o-Xylene	ug/L	50	44.5	89	70-130	
p-Isopropyltoluene	ug/L	50	47.3	95	70-130	
Styrene	ug/L	50	47.2	94	70-130	
Tetrachloroethene	ug/L	50	48.0	96	70-130	
Toluene	ug/L	50	47.5	95	70-130	
trans-1,2-Dichloroethene	ug/L	50	49.8	100	70-130	
trans-1,3-Dichloropropene	ug/L	50	52.0	104	70-130	
Trichloroethene	ug/L	50	55.8	112	70-130	
Trichlorofluoromethane	ug/L	50	52.1	104	70-130	
Vinyl acetate	ug/L	100	97.0	97	70-130	
Vinyl chloride	ug/L	50	50.4	101	70-130	
Xylene (Total)	ug/L	150	139	93	70-130	
1,2-Dichloroethane-d4 (S)	%			103	70-130	
4-Bromofluorobenzene (S)	%			102	70-130	
Toluene-d8 (S)	%			97	70-130	

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### QUALITY CONTROL DATA

Project 18856/51541 STEADY SIMMONS  
Pace Project No 92285073

MATRIX SPIKE SAMPLE	1680156	92285157004	Spike	MS	MS	% Rec	Qualifiers
Parameter	Units	Result	Conc.	Result	% Rec	Limits	
1,1,1,2-Tetrachloroethane	ug/L	ND	20	19.7	99	70-130	
1,1,1-Trichloroethane	ug/L	ND	20	22.2	111	70-130	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	19.7	99	70-130	
1,1,2-Trichloroethane	ug/L	ND	20	19.8	99	70-130	
1,1-Dichloroethane	ug/L	ND	20	20.9	104	70-130	
1,1-Dichloroethene	ug/L	ND	20	23.6	118	70-130	
1,1-Dichloropropene	ug/L	ND	20	18.9	95	70-130	
1,2,3-Trichlorobenzene	ug/L	ND	20	13.9	70	70-130	
1,2,3-Trichloropropane	ug/L	ND	20	21.5	107	70-130	
1,2,4-Trichlorobenzene	ug/L	ND	20	14.6	73	70-130	
1,2-Dibromo-3-chloropropane	ug/L	ND	20	18.8	94	70-130	
1,2-Dichlorobenzene	ug/L	ND	20	18.9	95	70-130	
1,2-Dichloroethane	ug/L	0.24J	20	19.5	96	70-130	
1,2-Dichloropropane	ug/L	ND	20	19.3	97	70-130	
1,3-Dichlorobenzene	ug/L	ND	20	20.1	100	70-130	
1,3-Dichloropropane	ug/L	ND	20	19.0	95	70-130	
1,4-Dichlorobenzene	ug/L	ND	20	19.3	97	70-130	
2,2-Dichloropropane	ug/L	ND	20	19.6	98	70-130	
2-Butanone (MEK)	ug/L	ND	40	37.0	93	70-130	
2-Chlorotoluene	ug/L	ND	20	19.5	98	70-130	
2-Hexanone	ug/L	ND	40	38.1	95	70-130	
4-Chlorotoluene	ug/L	ND	20	19.5	98	70-130	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	40	43.6	109	70-130	
Acetone	ug/L	ND	40	38.3	96	70-130	
Benzene	ug/L	ND	20	20.4	102	70-130	
Bromobenzene	ug/L	ND	20	18.5	93	70-130	
Bromochloromethane	ug/L	ND	20	23.8	119	70-130	
Bromodichloromethane	ug/L	ND	20	20.3	101	70-130	
Bromoform	ug/L	ND	20	16.2	81	70-130	
Bromomethane	ug/L	ND	20	22.1	110	70-130	
Carbon tetrachloride	ug/L	ND	20	23.1	115	70-130	
Chlorobenzene	ug/L	ND	20	20.9	104	70-130	
Chloroethane	ug/L	ND	20	29.0	145	70-130 M1	
Chloroform	ug/L	ND	20	22.2	111	70-130	
Chloromethane	ug/L	ND	20	24.3	121	70-130	
cis-1,2-Dichloroethene	ug/L	ND	20	22.5	113	70-130	
cis-1,3-Dichloropropene	ug/L	ND	20	18.0	90	70-130	
Dibromochloromethane	ug/L	ND	20	18.9	95	70-130	
Dibromomethane	ug/L	ND	20	22.8	114	70-130	
Dichlorodifluoromethane	ug/L	ND	20	21.6	108	70-130	
Diisopropyl ether	ug/L	ND	20	18.5	92	70-130	
Ethylbenzene	ug/L	ND	20	21.0	105	70-130	
Hexachloro-1,3-butadiene	ug/L	ND	20	13.8	69	70-130 M1	
m&p-Xylene	ug/L	ND	40	44.5	111	70-130	
Methyl-tert-butyl ether	ug/L	ND	20	18.7	93	70-130	
Methylene Chloride	ug/L	ND	20	22.6	113	70-130	
Naphthalene	ug/L	ND	20	14.9	75	70-130	

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### QUALITY CONTROL DATA

Project: 18856/51541 STEADY SIMMONS  
Pace Project No 92285073

MATRIX SPIKE SAMPLE: 1660156		92285157004	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc	Result	% Rec	Limits	Qualifiers
o-Xylene	ug/L	ND	20	20.8	104	70-130	
p-Isopropyltoluene	ug/L	ND	20	18.3	92	70-130	
Styrene	ug/L	ND	20	21.4	107	70-130	
Tetrachloroethene	ug/L	ND	20	20.5	103	70-130	
Toluene	ug/L	ND	20	21.5	107	70-130	
trans-1,2-Dichloroethene	ug/L	ND	20	22.4	112	70-130	
trans-1,3-Dichloropropene	ug/L	ND	20	18.8	94	70-130	
Trichloroethene	ug/L	ND	20	20.3	102	70-130	
Trichlorofluoromethane	ug/L	ND	20	25.9	130	70-130	
Vinyl acetate	ug/L	ND	40	27.0	68	70-130 M1	
Vinyl chloride	ug/L	ND	20	22.8	114	70-130	
1,2-Dichloroethane-d4 (S)	%				108	70-130	
4-Bromofluorobenzene (S)	%				109	70-130	
Toluene-d8 (S)	%				102	70-130	

SAMPLE DUPLICATE: 1660155

Parameter	Units	92285157003	Dup	RPD	Max	Qualifiers
		Result	Result		RPD	
1,1,1,2-Tetrachloroethane	ug/L	ND	ND		30	
1,1,1-Trichloroethane	ug/L	ND	ND		30	
1,1,2,2-Tetrachloroethane	ug/L	ND	ND		30	
1,1,2-Trichloroethane	ug/L	ND	ND		30	
1,1-Dichloroethane	ug/L	ND	ND		30	
1,1-Dichloroethene	ug/L	ND	ND		30	
1,1-Dichloropropene	ug/L	ND	ND		30	
1,2,3-Trichlorobenzene	ug/L	ND	ND		30	
1,2,3-Trichloropropane	ug/L	ND	ND		30	
1,2,4-Trichlorobenzene	ug/L	ND	ND		30	
1,2-Dibromo-3-chloropropane	ug/L	ND	ND		30	
1,2-Dichlorobenzene	ug/L	ND	ND		30	
1,2-Dichloroethane	ug/L	1.2	1.4	11	30	
1,2-Dichloropropane	ug/L	ND	ND		30	
1,3-Dichlorobenzene	ug/L	ND	ND		30	
1,3-Dichloropropane	ug/L	ND	ND		30	
1,4-Dichlorobenzene	ug/L	ND	ND		30	
2,2-Dichloropropane	ug/L	ND	ND		30	
2-Butanone (MEK)	ug/L	ND	ND		30	
2-Chlorotoluene	ug/L	ND	ND		30	
2-Hexanone	ug/L	ND	ND		30	
4-Chlorotoluene	ug/L	ND	ND		30	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	ND		30	
Acetone	ug/L	ND	ND		30	
Benzene	ug/L	1.8	1.4	23	30	
Bromobenzene	ug/L	ND	ND		30	
Bromochloromethane	ug/L	ND	ND		30	

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QUALITY CONTROL DATA

Project 18856/51541 STEADY SIMMONS  
Pace Project No.: 92285073

SAMPLE DUPLICATE 1660155

Parameter	Units	92285157003 Result	Dup Result	RPD	Max RPD	Qualifiers
Bromodichloromethane	ug/L	ND	ND		30	
Bromoform	ug/L	ND	ND		30	
Bromomethane	ug/L	ND	ND		30	
Carbon tetrachloride	ug/L	ND	ND		30	
Chlorobenzene	ug/L	ND	ND		30	
Chloroethane	ug/L	ND	ND		30	
Chloroform	ug/L	ND	ND		30	
Chloromethane	ug/L	ND	ND		30	
cis-1,2-Dichloroethene	ug/L	ND	ND		30	
cis-1,3-Dichloropropene	ug/L	ND	ND		30	
Dibromochloromethane	ug/L	ND	ND		30	
Dibromomethane	ug/L	ND	ND		30	
Dichlorodifluoromethane	ug/L	ND	ND		30	
Diisopropyl ether	ug/L	ND	ND		30	
Ethylbenzene	ug/L	ND	ND		30	
Hexachloro-1,3-butadiene	ug/L	ND	ND		30	
m&p-Xylene	ug/L	ND	ND		30	
Methyl-tert-butyl ether	ug/L	ND	ND		30	
Methylene Chloride	ug/L	ND	ND		30	
Naphthalene	ug/L	ND	ND		30	
o-Xylene	ug/L	ND	ND		30	
p-Isopropyltoluene	ug/L	ND	ND		30	
Styrene	ug/L	ND	ND		30	
Tetrachloroethene	ug/L	ND	ND		30	
Toluene	ug/L	ND	ND		30	
trans-1,2-Dichloroethene	ug/L	ND	ND		30	
trans-1,3-Dichloropropene	ug/L	ND	ND		30	
Trichloroethene	ug/L	ND	ND		30	
Trichlorofluoromethane	ug/L	ND	ND		30	
Vinyl acetate	ug/L	ND	ND		30	
Vinyl chloride	ug/L	ND	ND		30	
Xylene (Total)	ug/L	ND	ND		30	
1,2-Dichloroethane-d4 (S)	%	96	98	1		
4-Bromofluorobenzene (S)	%	103	106	3		
Toluene-d8 (S)	%	106	109	2		

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QUALITY CONTROL DATA

Project: 18856/51541 STEADY SIMMONS  
Pace Project No.: 92285073

QC Batch MSV/35459 Analysis Method EPA 8260  
QC Batch Method. EPA 8260 Analysis Description 8260 MSV SC  
Associated Lab Samples: 92285073003, 92285073004

METHOD BLANK: 1660806 Matrix: Water  
Associated Lab Samples: 92285073003, 92285073004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	5.0	1.7	02/05/16 12:21	
1,1,1-Trichloroethane	ug/L	ND	5.0	1.9	02/05/16 12:21	
1,1,2,2-Tetrachloroethane	ug/L	ND	5.0	1.5	02/05/16 12:21	
1,1,2-Trichloroethane	ug/L	ND	5.0	1.7	02/05/16 12:21	
1,1-Dichloroethane	ug/L	ND	5.0	1.8	02/05/16 12:21	
1,1-Dichloroethene	ug/L	ND	5.0	1.9	02/05/16 12:21	
1,1-Dichloropropene	ug/L	ND	5.0	1.7	02/05/16 12:21	
1,2,3-Trichlorobenzene	ug/L	ND	5.0	2.0	02/05/16 12:21	
1,2,3-Trichloropropane	ug/L	ND	5.0	1.5	02/05/16 12:21	
1,2,4-Trichlorobenzene	ug/L	ND	5.0	1.7	02/05/16 12:21	
1,2,4-Trimethylbenzene	ug/L	ND	5.0	1.5	02/05/16 12:21	
1,2-Dibromo-3-chloropropane	ug/L	ND	2.0	1.7	02/05/16 12:21	
1,2-Dichlorobenzene	ug/L	ND	5.0	1.5	02/05/16 12:21	
1,2-Dichloroethane	ug/L	ND	5.0	1.8	02/05/16 12:21	
1,2-Dichloroethene (Total)	ug/L	ND	5.0	4.4	02/05/16 12:21	
1,2-Dichloropropane	ug/L	ND	5.0	1.7	02/05/16 12:21	
1,3,5-Trimethylbenzene	ug/L	ND	5.0	1.3	02/05/16 12:21	
1,3-Dichlorobenzene	ug/L	ND	5.0	1.5	02/05/16 12:21	
1,3-Dichloropropane	ug/L	ND	5.0	1.7	02/05/16 12:21	
1,4-Dichlorobenzene	ug/L	ND	5.0	1.5	02/05/16 12:21	
2,2-Dichloropropane	ug/L	ND	5.0	1.6	02/05/16 12:21	
2-Butanone (MEK)	ug/L	ND	10.0	4.9	02/05/16 12:21	
2-Chlorotoluene	ug/L	ND	5.0	1.5	02/05/16 12:21	
2-Hexanone	ug/L	ND	10.0	3.8	02/05/16 12:21	
4-Chlorotoluene	ug/L	ND	5.0	1.6	02/05/16 12:21	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	3.6	02/05/16 12:21	
Acetone	ug/L	ND	25.0	10.0	02/05/16 12:21	
Benzene	ug/L	ND	5.0	1.7	02/05/16 12:21	
Bromobenzene	ug/L	ND	5.0	1.5	02/05/16 12:21	
Bromochloromethane	ug/L	ND	5.0	2.2	02/05/16 12:21	
Bromodichloromethane	ug/L	ND	5.0	1.7	02/05/16 12:21	
Bromoform	ug/L	ND	5.0	1.5	02/05/16 12:21	
Bromomethane	ug/L	ND	10.0	2.5	02/05/16 12:21	
Carbon tetrachloride	ug/L	ND	5.0	1.9	02/05/16 12:21	
Chlorobenzene	ug/L	ND	5.0	1.7	02/05/16 12:21	
Chloroethane	ug/L	ND	10.0	1.6	02/05/16 12:21	
Chloroform	ug/L	ND	5.0	1.9	02/05/16 12:21	
Chloromethane	ug/L	ND	5.0	1.5	02/05/16 12:21	
cis-1,2-Dichloroethene	ug/L	ND	5.0	1.8	02/05/16 12:21	
cis-1,3-Dichloropropene	ug/L	ND	5.0	1.6	02/05/16 12:21	
Dibromochloromethane	ug/L	ND	5.0	1.8	02/05/16 12:21	

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REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 18856/51541 STEADY SIMMONS  
Pace Project No 92285073

METHOD BLANK 1660806 Matrix: Water

Associated Lab Samples 92285073003, 92285073004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Dibromomethane	ug/L	ND	5.0	2.0	02/05/16 12:21	
Dichlorodifluoromethane	ug/L	ND	5.0	1.6	02/05/16 12:21	
Diisopropyl ether	ug/L	ND	5.0	1.7	02/05/16 12:21	
Ethylbenzene	ug/L	ND	5.0	1.6	02/05/16 12:21	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	1.8	02/05/16 12:21	
Isopropylbenzene (Cumene)	ug/L	ND	5.0	1.6	02/05/16 12:21	
m&p-Xylene	ug/L	ND	10.0	3.1	02/05/16 12:21	
Methyl-tert-butyl ether	ug/L	ND	5.0	1.7	02/05/16 12:21	
Methylene Chloride	ug/L	ND	5.0	1.9	02/05/16 12:21	
n-Butylbenzene	ug/L	ND	5.0	1.9	02/05/16 12:21	
n-Propylbenzene	ug/L	ND	5.0	1.5	02/05/16 12:21	
Naphthalene	ug/L	ND	5.0	2.0	02/05/16 12:21	
o-Xylene	ug/L	ND	5.0	1.6	02/05/16 12:21	
p-Isopropyltoluene	ug/L	ND	5.0	1.6	02/05/16 12:21	
sec-Butylbenzene	ug/L	ND	5.0	1.7	02/05/16 12:21	
Styrene	ug/L	ND	5.0	1.6	02/05/16 12:21	
tert-Butyl Alcohol	ug/L	ND	100	57.7	02/05/16 12:21	
tert-Butylbenzene	ug/L	ND	5.0	1.6	02/05/16 12:21	
Tetrachloroethene	ug/L	ND	5.0	1.8	02/05/16 12:21	
Toluene	ug/L	ND	5.0	1.6	02/05/16 12:21	
trans-1,2-Dichloroethene	ug/L	ND	5.0	1.8	02/05/16 12:21	
trans-1,3-Dichloropropene	ug/L	ND	5.0	1.6	02/05/16 12:21	
Trichloroethene	ug/L	ND	5.0	1.8	02/05/16 12:21	
Trichlorofluoromethane	ug/L	ND	10.0	1.7	02/05/16 12:21	
Vinyl acetate	ug/L	ND	10.0	2.3	02/05/16 12:21	
Vinyl chloride	ug/L	ND	5.0	1.5	02/05/16 12:21	
1,2-Dichloroethane-d4 (S)	%	129	70-130		02/05/16 12:21	
4-Bromofluorobenzene (S)	%	95	70-130		02/05/16 12:21	
Toluene-d8 (S)	%	103	70-130		02/05/16 12:21	

LABORATORY CONTROL SAMPLE: 1660807

Parameter	Units	Spike Conc	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	45.8	92	70-130	
1,1,1-Trichloroethane	ug/L	50	53.2	106	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	47.7	95	70-130	
1,1,2-Trichloroethane	ug/L	50	45.2	90	70-130	
1,1-Dichloroethane	ug/L	50	46.5	93	70-130	
1,1-Dichloroethene	ug/L	50	49.6	99	70-130	
1,1-Dichloropropene	ug/L	50	50.1	100	70-130	
1,2,3-Trichlorobenzene	ug/L	50	46.7	93	70-130	
1,2,3-Trichloropropane	ug/L	50	48.5	97	70-130	
1,2,4-Trichlorobenzene	ug/L	50	46.9	94	70-130	
1,2,4-Trimethylbenzene	ug/L	50	46.0	92	70-130	

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### QUALITY CONTROL DATA

Project: 18856/51541 STEADY SIMMONS  
Pace Project No.: 92285073

LABORATORY CONTROL SAMPLE: 1660807

Parameter	Units	Spike Conc	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dibromo-3-chloropropane	ug/L	50	55.1	110	70-130	
1,2-Dichlorobenzene	ug/L	50	44.2	88	70-130	
1,2-Dichloroethane	ug/L	50	49.6	99	70-130	
1,2-Dichloroethene (Total)	ug/L	100	95.2	95	70-130	
1,2-Dichloropropane	ug/L	50	42.8	86	70-130	
1,3,5-Trimethylbenzene	ug/L	50	47.0	94	70-130	
1,3-Dichlorobenzene	ug/L	50	44.3	89	70-130	
1,3-Dichloropropane	ug/L	50	46.4	93	70-130	
1,4-Dichlorobenzene	ug/L	50	43.9	88	70-130	
2,2-Dichloropropane	ug/L	50	53.4	107	70-130	
2-Butanone (MEK)	ug/L	100	112	112	70-130	
2-Chlorotoluene	ug/L	50	47.4	95	70-130	
2-Hexanone	ug/L	100	116	116	70-130	
4-Chlorotoluene	ug/L	50	46.7	93	70-130	
4-Methyl-2-pentanone (MIBK)	ug/L	100	117	117	70-130	
Acetone	ug/L	100	138	138	70-130 LO	
Benzene	ug/L	50	45.8	92	70-130	
Bromobenzene	ug/L	50	50.6	101	70-130	
Bromochloromethane	ug/L	50	49.3	99	70-130	
Bromodichloromethane	ug/L	50	47.9	96	70-130	
Bromoform	ug/L	50	44.7	89	70-130	
Bromomethane	ug/L	50	41.6	83	70-130	
Carbon tetrachloride	ug/L	50	48.7	97	70-130	
Chlorobenzene	ug/L	50	43.0	86	70-130	
Chloroethane	ug/L	50	43.2	86	70-130	
Chloroform	ug/L	50	48.8	98	70-130	
Chloromethane	ug/L	50	44.6	89	70-130	
cis-1,2-Dichloroethene	ug/L	50	47.2	94	70-130	
cis-1,3-Dichloropropene	ug/L	50	48.9	98	70-130	
Dibromochloromethane	ug/L	50	46.6	93	70-130	
Dibromomethane	ug/L	50	40.8	82	70-130	
Dichlorodifluoromethane	ug/L	50	43.4	87	70-130	
Diisopropyl ether	ug/L	50	57.0	114	70-130	
Ethylbenzene	ug/L	50	45.4	91	70-130	
Hexachloro-1,3-butadiene	ug/L	50	48.0	96	70-130	
Isopropylbenzene (Cumene)	ug/L	50	43.4	87	70-130	
m&p-Xylene	ug/L	100	88.9	89	70-130	
Methyl-tert-butyl ether	ug/L	50	53.8	108	70-130	
Methylene Chloride	ug/L	50	55.9	112	70-130	
n-Butylbenzene	ug/L	50	49.2	98	70-130	
n-Propylbenzene	ug/L	50	47.6	95	70-130	
Naphthalene	ug/L	50	48.8	98	70-130	
o-Xylene	ug/L	50	44.0	88	70-130	
p-Isopropyltoluene	ug/L	50	46.4	93	70-130	
sec-Butylbenzene	ug/L	50	46.7	93	70-130	
Styrene	ug/L	50	44.5	89	70-130	
tert-Butyl Alcohol	ug/L	500	556	111	70-130	

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### QUALITY CONTROL DATA

Project 18856/51541 STEADY SIMMONS  
Pace Project No.. 92285073

LABORATORY CONTROL SAMPLE: 1660807

Parameter	Units	Spike Conc	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
tert-Butylbenzene	ug/L	50	40.1	80	70-130	
Tetrachloroethene	ug/L	50	41.7	83	70-130	
Toluene	ug/L	50	46.2	92	70-130	
trans-1,2-Dichloroethene	ug/L	50	47.9	96	70-130	
trans-1,3-Dichloropropene	ug/L	50	48.5	97	70-130	
Trichloroethene	ug/L	50	42.3	85	70-130	
Trichlorofluoromethane	ug/L	50	49.8	100	70-130	
Vinyl acetate	ug/L	100	117	117	70-130	
Vinyl chloride	ug/L	50	44.8	90	70-130	
1,2-Dichloroethane-d4 (S)	%			118	70-130	
4-Bromofluorobenzene (S)	%			96	70-130	
Toluene-d8 (S)	%			102	70-130	

MATRIX SPIKE SAMPLE 1660808

Parameter	Units	92285317006 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	20	19.8	99	70-130	
1,1,1-Trichloroethane	ug/L	ND	20	28.8	144	70-130 M1	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	21.1	105	70-130	
1,1,2-Trichloroethane	ug/L	ND	20	20.4	102	70-130	
1,1-Dichloroethane	ug/L	ND	20	23.5	117	70-130	
1,1-Dichloroethene	ug/L	ND	20	23.6	118	70-130	
1,1-Dichloropropene	ug/L	ND	20	27.1	135	70-130 M1	
1,2,3-Trichlorobenzene	ug/L	ND	20	18.8	94	70-130	
1,2,3-Trichloropropane	ug/L	ND	20	21.8	109	70-130	
1,2,4-Trichlorobenzene	ug/L	ND	20	18.8	94	70-130	
1,2,4-Trimethylbenzene	ug/L	ND	20	23.8	119	70-130	
1,2-Dibromo-3-chloropropane	ug/L	ND	20	26.5	132	70-130 M1	
1,2-Dichlorobenzene	ug/L	ND	20	20.1	101	70-130	
1,2-Dichloroethane	ug/L	ND	20	26.3	132	70-130 M1	
1,2-Dichloropropane	ug/L	ND	20	18.8	94	70-130	
1,3,5-Trimethylbenzene	ug/L	ND	20	24.1	120	70-130	
1,3-Dichlorobenzene	ug/L	ND	20	21.0	105	70-130	
1,3-Dichloropropane	ug/L	ND	20	22.4	112	70-130	
1,4-Dichlorobenzene	ug/L	ND	20	20.7	104	70-130	
2,2-Dichloropropane	ug/L	ND	20	27.2	136	70-130 M1	
2-Butanone (MEK)	ug/L	ND	40	49.6	124	70-130	
2-Chlorotoluene	ug/L	ND	20	25.3	127	70-130	
2-Hexanone	ug/L	ND	40	47.0	117	70-130	
4-Chlorotoluene	ug/L	ND	20	24.5	122	70-130	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	40	45.1	113	70-130	
Acetone	ug/L	ND	40	54.1	135	70-130 M0	
Benzene	ug/L	ND	20	22.2	111	70-130	
Bromobenzene	ug/L	ND	20	26.4	132	70-130 M1	
Bromochloromethane	ug/L	ND	20	22.3	111	70-130	

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### QUALITY CONTROL DATA

Project 18856/51541 STEADY SIMMONS  
Pace Project No.: 92285073

MATRIX SPIKE SAMPLE: 1660808		92285317006	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc	Result	% Rec	Limits	Qualifiers
Bromodichloromethane	ug/L	ND	20	22.3	112	70-130	
Bromoform	ug/L	ND	20	16.5	82	70-130	
Bromomethane	ug/L	ND	20	11.7	59	70-130 M1	
Carbon tetrachloride	ug/L	ND	20	24.5	122	70-130	
Chlorobenzene	ug/L	ND	20	19.6	98	70-130	
Chloroethane	ug/L	ND	20	22.0	110	70-130	
Chloroform	ug/L	ND	20	27.2	136	70-130 M1	
Chloromethane	ug/L	ND	20	18.6	93	70-130	
cis-1,2-Dichloroethene	ug/L	ND	20	23.4	117	70-130	
cis-1,3-Dichloropropene	ug/L	ND	20	21.7	109	70-130	
Dibromochloromethane	ug/L	ND	20	19.6	98	70-130	
Dibromomethane	ug/L	ND	20	17.5	87	70-130	
Dichlorodifluoromethane	ug/L	ND	20	22.7	113	70-130	
Diisopropyl ether	ug/L	ND	20	24.4	122	70-130	
Ethylbenzene	ug/L	ND	20	22.9	114	70-130	
Hexachloro-1,3-butadiene	ug/L	ND	20	19.1	96	70-130	
Isopropylbenzene (Cumene)	ug/L	ND	20	21.5	108	70-130	
m&p-Xylene	ug/L	ND	40	45.5	114	70-130	
Methyl-tert-butyl ether	ug/L	ND	20	28.3	142	70-130 M1	
Methylene Chloride	ug/L	ND	20	23.7	118	70-130	
n-Butylbenzene	ug/L	ND	20	25.6	128	70-130	
n-Propylbenzene	ug/L	ND	20	25.0	125	70-130	
Naphthalene	ug/L	ND	20	21.5	108	70-130	
o-Xylene	ug/L	ND	20	22.0	110	70-130	
p-Isopropyltoluene	ug/L	ND	20	21.9	110	70-130	
sec-Butylbenzene	ug/L	ND	20	23.5	117	70-130	
Styrene	ug/L	ND	20	20.4	102	70-130	
tert-Butyl Alcohol	ug/L	ND	200	388	194	70-130 M1	
tert-Butylbenzene	ug/L	ND	20	19.5	98	70-130	
Tetrachloroethene	ug/L	ND	20	18.1	91	70-130	
Toluene	ug/L	ND	20	21.5	108	70-130	
trans-1,2-Dichloroethene	ug/L	ND	20	23.8	119	70-130	
trans-1,3-Dichloropropene	ug/L	ND	20	22.1	110	70-130	
Trichloroethene	ug/L	ND	20	18.7	94	70-130	
Trichlorofluoromethane	ug/L	ND	20	25.8	129	70-130	
Vinyl acetate	ug/L	ND	40	44.7	112	70-130	
Vinyl chloride	ug/L	ND	20	20.4	102	70-130	
1,2-Dichloroethane-d4 (S)	%				144	70-130 S0	
4-Bromofluorobenzene (S)	%				93	70-130	
Toluene-d8 (S)	%				103	70-130	

SAMPLE DUPLICATE: 1660809

Parameter	Units	92285317007 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	ND		30	

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### QUALITY CONTROL DATA

Project 18856/51541 STEADY SIMMONS  
Pace Project No.. 92285073

SAMPLE DUPLICATE: 1660809

Parameter	Units	92285317007 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	ND		30	
1,1,2,2-Tetrachloroethane	ug/L	ND	ND		30	
1,1,2-Trichloroethane	ug/L	ND	ND		30	
1,1-Dichloroethane	ug/L	ND	ND		30	
1,1-Dichloroethene	ug/L	ND	ND		30	
1,1-Dichloropropene	ug/L	ND	ND		30	
1,2,3-Trichlorobenzene	ug/L	ND	ND		30	
1,2,3-Trichloropropane	ug/L	ND	ND		30	
1,2,4-Trichlorobenzene	ug/L	ND	ND		30	
1,2,4-Trimethylbenzene	ug/L	ND	ND		30	
1,2-Dibromo-3-chloropropane	ug/L	ND	ND		30	
1,2-Dichlorobenzene	ug/L	ND	ND		30	
1,2-Dichloroethane	ug/L	ND	ND		30	
1,2-Dichloroethene (Total)	ug/L	ND	ND		30	
1,2-Dichloropropane	ug/L	ND	ND		30	
1,3,5-Trimethylbenzene	ug/L	ND	ND		30	
1,3-Dichlorobenzene	ug/L	ND	ND		30	
1,3-Dichloropropane	ug/L	ND	ND		30	
1,4-Dichlorobenzene	ug/L	ND	ND		30	
2,2-Dichloropropane	ug/L	ND	ND		30	
2-Butanone (MEK)	ug/L	ND	ND		30	
2-Chlorotoluene	ug/L	ND	ND		30	
2-Hexanone	ug/L	ND	ND		30	
4-Chlorotoluene	ug/L	ND	ND		30	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	ND		30	
Acetone	ug/L	ND	ND		30	
Benzene	ug/L	ND	ND		30	
Bromobenzene	ug/L	ND	ND		30	
Bromochloromethane	ug/L	ND	ND		30	
Bromodichloromethane	ug/L	ND	ND		30	
Bromoform	ug/L	ND	ND		30	
Bromomethane	ug/L	ND	ND		30	
Carbon tetrachloride	ug/L	ND	ND		30	
Chlorobenzene	ug/L	ND	ND		30	
Chloroethane	ug/L	ND	ND		30	
Chloroform	ug/L	ND	ND		30	
Chloromethane	ug/L	ND	ND		30	
cis-1,2-Dichloroethene	ug/L	ND	ND		30	
cis-1,3-Dichloropropene	ug/L	ND	ND		30	
Dibromochloromethane	ug/L	ND	ND		30	
Dibromomethane	ug/L	ND	ND		30	
Dichlorodifluoromethane	ug/L	ND	ND		30	
Diisopropyl ether	ug/L	ND	ND		30	
Ethylbenzene	ug/L	ND	ND		30	
Hexachloro-1,3-butadiene	ug/L	ND	ND		30	
Isopropylbenzene (Cumene)	ug/L	ND	ND		30	
m&p-Xylene	ug/L	ND	ND		30	

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QUALITY CONTROL DATA

Project 18856/51541 STEADY SIMMONS  
Pace Project No. 92285073

SAMPLE DUPLICATE 1660809

Parameter	Units	92285317007 Result	Dup Result	RPD	Max RPD	Qualifiers
Methyl-tert-butyl ether	ug/L	ND	ND		30	
Methylene Chloride	ug/L	ND	ND		30	
n-Butylbenzene	ug/L	ND	ND		30	
n-Propylbenzene	ug/L	ND	ND		30	
Naphthalene	ug/L	ND	ND		30	
o-Xylene	ug/L	ND	ND		30	
p-Isopropyltoluene	ug/L	ND	ND		30	
sec-Butylbenzene	ug/L	ND	ND		30	
Styrene	ug/L	ND	ND		30	
tert-Butyl Alcohol	ug/L	ND	ND		30	
tert-Butylbenzene	ug/L	ND	ND		30	
Tetrachloroethene	ug/L	ND	ND		30	
Toluene	ug/L	ND	ND		30	
trans-1,2-Dichloroethene	ug/L	ND	ND		30	
trans-1,3-Dichloropropene	ug/L	ND	ND		30	
Trnchloroethene	ug/L	ND	ND		30	
Trichlorofluoromethane	ug/L	ND	ND		30	
Vinyl acetate	ug/L	ND	ND		30	
Vinyl chloride	ug/L	ND	ND		30	
1,2-Dichloroethane-d4 (S)	%	144	144	0		S3
4-Bromofluorobenzene (S)	%	94	90	3		
Toluene-d8 (S)	%	106	104	1		

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 18856/51541 STEADY SIMMONS  
Pace Project No.: 92285073

QC Batch: OEXT/40668 Analysis Method: EPA 8270  
QC Batch Method: EPA 3510 Analysis Description: 8270 Water MSSV SC  
Associated Lab Samples: 92285073001, 92285073002, 92285073003

METHOD BLANK: 1662427 Matrix: Water  
Associated Lab Samples: 92285073001, 92285073002, 92285073003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	10.0	0.98	02/09/16 15:47	
1,2-Dichlorobenzene	ug/L	ND	10.0	0.88	02/09/16 15:47	
1,3-Dichlorobenzene	ug/L	ND	10.0	0.81	02/09/16 15:47	
1,4-Dichlorobenzene	ug/L	ND	10.0	0.95	02/09/16 15:47	
1-Methylnaphthalene	ug/L	ND	10.0	0.32	02/09/16 15:47	
2,4,5-Trichlorophenol	ug/L	ND	10.0	0.92	02/09/16 15:47	
2,4,6-Trichlorophenol	ug/L	ND	10.0	1.3	02/09/16 15:47	
2,4-Dichlorophenol	ug/L	ND	10.0	1.7	02/09/16 15:47	
2,4-Dimethylphenol	ug/L	ND	10.0	1.2	02/09/16 15:47	
2,4-Dinitrophenol	ug/L	ND	50.0	9.0	02/09/16 15:47	
2,4-Dinitrotoluene	ug/L	ND	10.0	0.90	02/09/16 15:47	
2,6-Dinitrotoluene	ug/L	ND	10.0	0.98	02/09/16 15:47	
2-Chloronaphthalene	ug/L	ND	10.0	0.98	02/09/16 15:47	
2-Chlorophenol	ug/L	ND	10.0	1.3	02/09/16 15:47	
2-Methylnaphthalene	ug/L	ND	10.0	0.28	02/09/16 15:47	
2-Methylphenol(o-Cresol)	ug/L	ND	10.0	1.6	02/09/16 15:47	
2-Nitroaniline	ug/L	ND	50.0	2.0	02/09/16 15:47	
2-Nitrophenol	ug/L	ND	10.0	0.91	02/09/16 15:47	
3&4-Methylphenol(m&p Cresol)	ug/L	ND	10.0	2.0	02/09/16 15:47	
3,3'-Dichlorobenzidine	ug/L	ND	50.0	2.1	02/09/16 15:47	
3-Nitroaniline	ug/L	ND	50.0	2.0	02/09/16 15:47	
4,6-Dinitro-2-methylphenol	ug/L	ND	20.0	2.6	02/09/16 15:47	
4-Bromophenylphenyl ether	ug/L	ND	10.0	0.82	02/09/16 15:47	
4-Chloro-3-methylphenol	ug/L	ND	20.0	3.7	02/09/16 15:47	
4-Chloroaniline	ug/L	ND	50.0	2.8	02/09/16 15:47	
4-Chlorophenylphenyl ether	ug/L	ND	10.0	0.87	02/09/16 15:47	
4-Nitroaniline	ug/L	ND	50.0	2.1	02/09/16 15:47	
4-Nitrophenol	ug/L	ND	50.0	4.1	02/09/16 15:47	
Acenaphthene	ug/L	ND	10.0	0.25	02/09/16 15:47	
Acenaphthylene	ug/L	ND	10.0	0.21	02/09/16 15:47	
Aniline	ug/L	ND	10.0	2.0	02/09/16 15:47	
Anthracene	ug/L	ND	10.0	0.14	02/09/16 15:47	
Benzo(a)anthracene	ug/L	ND	10.0	0.33	02/09/16 15:47	
Benzo(a)pyrene	ug/L	ND	10.0	0.30	02/09/16 15:47	
Benzo(b)fluoranthene	ug/L	ND	10.0	0.28	02/09/16 15:47	
Benzo(g,h,i)perylene	ug/L	ND	10.0	0.38	02/09/16 15:47	
Benzo(k)fluoranthene	ug/L	ND	10.0	0.43	02/09/16 15:47	
Benzoic Acid	ug/L	ND	50.0	11.5	02/09/16 15:47	
Benzyl alcohol	ug/L	ND	20.0	2.4	02/09/16 15:47	
bis(2-Chloroethoxy)methane	ug/L	ND	10.0	0.92	02/09/16 15:47	
bis(2-Chloroethyl) ether	ug/L	ND	10.0	1.0	02/09/16 15:47	

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REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project 18856/51541 STEADY SIMMONS  
Pace Project No. 92285073

METHOD BLANK 1662427		Matrix: Water				
Associated Lab Samples 92285073001, 92285073002, 92285073003						
Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
bis(2-Chloroisopropyl) ether	ug/L	ND	10.0	0.95	02/09/16 15:47	
bis(2-Ethylhexyl)phthalate	ug/L	2.7J	6.0	0.79	02/09/16 15:47	
Butylbenzylphthalate	ug/L	ND	10.0	0.79	02/09/16 15:47	
Chrysene	ug/L	ND	10.0	0.21	02/09/16 15:47	
Di-n-butylphthalate	ug/L	ND	10.0	0.75	02/09/16 15:47	
Di-n-octylphthalate	ug/L	ND	10.0	0.66	02/09/16 15:47	
Dibenz(a,h)anthracene	ug/L	ND	10.0	0.55	02/09/16 15:47	
Dibenzofuran	ug/L	ND	10.0	0.89	02/09/16 15:47	
Diethylphthalate	ug/L	ND	10.0	0.58	02/09/16 15:47	
Dimethylphthalate	ug/L	ND	10.0	0.76	02/09/16 15:47	
Fluoranthene	ug/L	ND	10.0	0.21	02/09/16 15:47	
Fluorene	ug/L	ND	10.0	0.21	02/09/16 15:47	
Hexachloro-1,3-butadiene	ug/L	ND	10.0	0.94	02/09/16 15:47	
Hexachlorobenzene	ug/L	ND	10.0	0.72	02/09/16 15:47	
Hexachlorocyclopentadiene	ug/L	ND	10.0	0.88	02/09/16 15:47	
Hexachloroethane	ug/L	ND	10.0	1.1	02/09/16 15:47	
Indeno(1,2,3-cd)pyrene	ug/L	ND	10.0	0.29	02/09/16 15:47	
Isophorone	ug/L	ND	10.0	0.89	02/09/16 15:47	
N-Nitroso-di-n-propylamine	ug/L	ND	10.0	0.99	02/09/16 15:47	
N-Nitrosodimethylamine	ug/L	ND	10.0	0.91	02/09/16 15:47	
N-Nitrosodiphenylamine	ug/L	ND	10.0	1.0	02/09/16 15:47	
Naphthalene	ug/L	ND	10.0	0.34	02/09/16 15:47	
Nitrobenzene	ug/L	ND	10.0	1.1	02/09/16 15:47	
Pentachlorophenol	ug/L	ND	50.0	4.6	02/09/16 15:47	
Phenanthrene	ug/L	ND	10.0	0.22	02/09/16 15:47	
Phenol	ug/L	ND	10.0	1.9	02/09/16 15:47	
Pyrene	ug/L	ND	10.0	0.19	02/09/16 15:47	
2,4,6-Tribromophenol (S)	%	57	27-110		02/09/16 15:47	
2-Fluorobiphenyl (S)	%	75	27-110		02/09/16 15:47	
2-Fluorophenol (S)	%	28	12-110		02/09/16 15:47	
Nitrobenzene-d5 (S)	%	75	21-110		02/09/16 15:47	
Phenol-d6 (S)	%	23	10-110		02/09/16 15:47	
Terphenyl-d14 (S)	%	90	31-107		02/09/16 15:47	

LABORATORY CONTROL SAMPLE & LCSD: 1662428		1662429								
Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2,4-Trichlorobenzene	ug/L	50	36.2	34.2	72	68	70-130	6	30	
1,2-Dichlorobenzene	ug/L	50	35.6	32.6	71	65	70-130	9	30	
1,3-Dichlorobenzene	ug/L	50	34.8	32.0	70	64	70-130	8	30	
1,4-Dichlorobenzene	ug/L	50	34.7	32.7	69	65	70-130	6	30	
1-Methylnaphthalene	ug/L	50	38.8	36.5	78	73	70-130	6	30	
2,4,5-Trichlorophenol	ug/L	50	22.0	17.5	44	35	70-130	23	30 L2	
2,4,6-Trichlorophenol	ug/L	50	22.5	19.2	45	38	70-130	16	30 L2	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 18856/51541 STEADY SIMMONS  
Pace Project No.. 92285073

Parameter	Units	1662428		1662429		% Rec	% Rec	% Rec	RPD	Max RPD	Qualifiers
		Spike Conc.	LCS Result	LCS Result	LCS % Rec						
2,4-Dichlorophenol	ug/L	50	26.2	19.6	52	39	70-130	29	30		
2,4-Dimethylphenol	ug/L	50	40.4	37.7	81	75	70-130	7	30		
2,4-Dinitrophenol	ug/L	250	18.1J	ND	7	1	70-130		30	L2	
2,4-Dinitrotoluene	ug/L	50	46.1	44.8	92	90	70-130	3	30		
2,6-Dinitrotoluene	ug/L	50	44.5	44.6	89	89	70-130	0	30		
2-Chloronaphthalene	ug/L	50	41.3	39.0	83	78	70-130	6	30		
2-Chlorophenol	ug/L	50	26.9	19.9	54	40	70-130	30	30		
2-Methylnaphthalene	ug/L	50	37.8	36.2	76	72	70-130	4	30		
2-Methylphenol(o-Cresol)	ug/L	50	31.2	29.5	62	59	70-130	6	30		
2-Nitroaniline	ug/L	100	84.6	82.4	85	82	70-130	3	30		
2-Nitrophenol	ug/L	50	21.8	14.9	44	30	70-130	38	30	R1	
3&4-Methylphenol(m&p Cresol)	ug/L	50	28.8	25.3	58	51	70-130	13	30		
3,3'-Dichlorobenzidine	ug/L	100	85.6	93.9	86	94	70-130	9	30		
3-Nitroaniline	ug/L	100	85.2	85.1	85	85	70-130	0	30		
4,6-Dinitro-2-methylphenol	ug/L	100	27.5	4.0J	28	4	70-130		30	L2	
4-Bromophenylphenyl ether	ug/L	50	43.6	43.8	87	88	70-130	0	30		
4-Chloro-3-methylphenol	ug/L	100	78.8	65.1	79	65	70-130	19	30		
4-Chloroaniline	ug/L	100	78.6	76.4	79	76	70-130	3	30		
4-Chlorophenylphenyl ether	ug/L	50	42.5	41.4	85	83	70-130	3	30		
4-Nitroaniline	ug/L	100	93.3	90.5	93	91	70-130	3	30		
4-Nitrophenol	ug/L	250	37.7J	23.2J	15	9	70-130		30	L2	
Acenaphthene	ug/L	50	39.7	37.9	79	76	70-130	5	30		
Acenaphthylene	ug/L	50	42.0	39.6	84	79	70-130	6	30		
Aniline	ug/L	50	33.8	34.0	68	68	70-130	1	30		
Anthracene	ug/L	50	42.5	43.4	85	87	70-130	2	30		
Benzo(a)anthracene	ug/L	50	42.9	44.6	86	89	70-130	4	30		
Benzo(a)pyrene	ug/L	50	44.1	46.1	88	92	70-130	4	30		
Benzo(b)fluoranthene	ug/L	50	43.1	45.0	86	90	70-130	4	30		
Benzo(g,h,i)perylene	ug/L	50	36.1	39.8	72	80	70-130	10	30		
Benzo(k)fluoranthene	ug/L	50	42.1	43.7	84	87	70-130	4	30		
Benzoic Acid	ug/L	250	ND	ND	1	0	70-130		30	L2	
Benzyl alcohol	ug/L	100	71.9	71.6	72	72	70-130	0	30		
bis(2-Chloroethoxy)methane	ug/L	50	38.6	36.5	77	73	70-130	6	30		
bis(2-Chloroethyl) ether	ug/L	50	40.6	39.1	81	78	70-130	4	30		
bis(2-Chloroisopropyl) ether	ug/L	50	34.3	34.0	69	68	70-130	1	30		
bis(2-Ethylhexyl)phthalate	ug/L	50	50.1	51.0	100	102	70-130	2	30		
Butylbenzylphthalate	ug/L	50	47.3	49.1	95	98	70-130	4	30		
Chrysene	ug/L	50	42.3	43.4	85	87	70-130	3	30		
Di-n-butylphthalate	ug/L	50	46.8	48.1	94	96	70-130	3	30		
Di-n-octylphthalate	ug/L	50	46.2	47.6	92	95	70-130	3	30		
Dibenz(a,h)anthracene	ug/L	50	38.9	43.2	78	86	70-130	11	30		
Dibenzofuran	ug/L	50	44.1	42.4	88	85	70-130	4	30		
Diethylphthalate	ug/L	50	45.8	45.2	92	90	70-130	1	30		
Dimethylphthalate	ug/L	50	44.4	43.8	89	88	70-130	1	30		
Fluoranthene	ug/L	50	42.9	43.4	86	87	70-130	1	30		
Fluorene	ug/L	50	42.6	41.0	85	82	70-130	4	30		
Hexachloro-1,3-butadiene	ug/L	50	32.6	30.5	65	61	70-130	7	30		

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QUALITY CONTROL DATA

Project: 18856/51541 STEADY SIMMONS  
 Pace Project No: 92285073

Parameter	Units	1662428		1662429		% Rec Limits	RPD	Max RPD	Qualifiers
		Spike Conc.	LCS Result	LCSD Result	LCS % Rec				
Hexachlorobenzene	ug/L	50	44.9	45.8	90	92	70-130	2	30
Hexachlorocyclopentadiene	ug/L	50	34.6	33.3	69	67	70-130	4	30
Hexachloroethane	ug/L	50	34.9	30.5	70	61	70-130	13	30
Indeno(1,2,3-cd)pyrene	ug/L	50	41.5	45.2	83	90	70-130	8	30
Isophorone	ug/L	50	40.2	38.8	80	78	70-130	4	30
N-Nitroso-di-n-propylamine	ug/L	50	44.0	42.3	88	85	70-130	4	30
N-Nitrosodimethylamine	ug/L	50	24.4	24.1	49	48	70-130	1	30
N-Nitrosodiphenylamine	ug/L	50	44.7	45.0	89	90	70-130	1	30
Naphthalene	ug/L	50	35.1	33.3	70	67	70-130	5	30
Nitrobenzene	ug/L	50	38.0	37.0	76	74	70-130	3	30
Pentachlorophenol	ug/L	100	32.4J	19.1J	32	19	70-130		30
Phenanthrene	ug/L	50	43.3	43.9	87	88	70-130	1	30
Phenol	ug/L	50	15.8	10.8	32	22	70-130	38	30 1g,2g,L0,R1
Pyrene	ug/L	50	43.2	44.4	86	89	70-130	3	30
2,4,6-Tribromophenol (S)	%					51	44	27-110	
2-Fluorobiphenyl (S)	%					86	80	27-110	
2-Fluorophenol (S)	%					25	18	12-110	
Nitrobenzene-d5 (S)	%					81	77	21-110	
Phenol-d6 (S)	%					29	21	10-110	
Terphenyl-d14 (S)	%					93	91	31-107	

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## QUALIFIERS

Project 18856/51541 STEADY SIMMONS  
Pace Project No : 92285073

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### DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot  
ND - Not Detected at or above adjusted reporting limit  
J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.  
MDL - Adjusted Method Detection Limit  
PQL - Practical Quantitation Limit.  
RL - Reporting Limit.  
S - Surrogate  
1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration  
Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.  
LCS(D) - Laboratory Control Sample (Duplicate)  
MS(D) - Matrix Spike (Duplicate)  
DUP - Sample Duplicate  
RPD - Relative Percent Difference  
NC - Not Calculable  
SG - Silica Gel - Clean-Up  
U - Indicates the compound was analyzed for, but not detected.  
Acid preservation may not be appropriate for 2 Chloroethylvinyl ether, Styrene, and Vinyl chloride.  
A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.  
N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270 The result reported for each analyte is a combined concentration.  
Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.  
TNI - The NELAC Institute

### LABORATORIES

PASI-A Pace Analytical Services - Asheville  
PASI-C Pace Analytical Services - Charlotte

### ANALYTE QUALIFIERS

1g Footnotes apply to all recoveries less than 70% unless otherwise noted.  
2g Recovery meets in-house limits  
3g Sample re-analyzed outside of method hold time Results of re-analysis confirmed original analysis performed within hold time  
L0 Analyte recovery in the laboratory control sample (LCS) was outside QC limits.  
L2 Analyte recovery in the laboratory control sample (LCS) was below QC limits Results for this analyte in associated samples may be biased low  
L3 Analyte recovery in the laboratory control sample (LCS) exceeded QC limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias.  
M0 Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits  
M1 Matrix spike recovery exceeded QC limits Batch accepted based on laboratory control sample (LCS) recovery  
R1 RPD value was outside control limits  
S0 Surrogate recovery outside laboratory control limits  
S3 Surrogate recovery exceeded laboratory control limits Analyte presence below reporting limits in associated samples Results unaffected by high bias.

## REPORT OF LABORATORY ANALYSIS

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**QUALITY CONTROL DATA CROSS REFERENCE TABLE**

Project 18856/51541 STEADY SIMMONS  
Pace Project No 92285073

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92285073001	WSW-1	EPA 3010A	MPRP/20624	EPA 6010	ICP/18601
92285073002	WSW-1 DUP	EPA 3010A	MPRP/20624	EPA 6010	ICP/18601
92285073003	FIELD BLANK	EPA 3010A	MPRP/20624	EPA 6010	ICP/18601
92285073001	WSW-1	EPA 7470	MERP/8931	EPA 7470	MERC/8582
92285073002	WSW-1 DUP	EPA 7470	MERP/8931	EPA 7470	MERC/8582
92285073003	FIELD BLANK	EPA 7470	MERP/8931	EPA 7470	MERC/8582
92285073001	WSW-1	EPA 3510	OEXT/40668	EPA 8270	MSSV/11851
92285073002	WSW-1 DUP	EPA 3510	OEXT/40668	EPA 8270	MSSV/11851
92285073003	FIELD BLANK	EPA 3510	OEXT/40668	EPA 8270	MSSV/11851
92285073001	WSW-1	EPA 8260	MSV/35444		
92285073002	WSW-1 DUP	EPA 8260	MSV/35444		
92285073003	FIELD BLANK	EPA 8260	MSV/35459		
92285073004	TRIP BLANK	EPA 8260	MSV/35459		

**REPORT OF LABORATORY ANALYSIS**

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<b>Sample Condition Upon Receipt</b>	Client Name: <u>SCDHFC</u>	Project #: <b>WO# : 92285073</b>
	Courier: <input type="checkbox"/> Fed Ex <input type="checkbox"/> UPS <input type="checkbox"/> USPS <input type="checkbox"/> Client <input type="checkbox"/> Commercial <input type="checkbox"/> Pace <input type="checkbox"/> Other: _____	 <b>92285073</b>

Custody Seal on Cooler/Box Present?  Yes  No      Seals Intact?  Yes  No  
 Packing Material:  Bubble Wrap  Bubble Bags  None  Other: \_\_\_\_\_  
 Thermometer Used:  T1505      Type of Ice:  Wet  Blue  None  Samples on ice, cooling process has begun  
 Cooler Temp Corrected (°C): 29      Biological Tissue Frozen?  Yes  No  N/A  
 Temp should be above freezing to 6°C      Correction Factor: 0.0 °C      Date and Initials of Person Examining Contents: AP 2-3-16

**USDA Regulated Soil** (  N/A, water sample)  
 Yes  No      Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)?  
 Yes  No      Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)?  Yes  No

If Yes to either question, fill out a Regulated Soil Checklist and include with SCUR/COC paperwork.

	COMMENTS:
Chain of Custody Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name and/or Signature on COC? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Short Hold Time Analysis (<72 hr)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	6.
Rush Turn Around Time Requested? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient Volume? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct Containers Used? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Pace Containers Used? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Containers Intact? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Filtered Volume Received for Dissolved Tests? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	11. Note if sediment is visible in the dissolved container.
Sample Labels Match COC? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.
-Includes Date/Time/ID/Analysis Matrix:	
All containers needing acid/base preservation have been checked? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
(HNO <sub>3</sub> , H <sub>2</sub> SO <sub>4</sub> , HCl<2; NaOH >9 Sulfide, NaOH>12 Cyanide) Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC,LLHg	
Samples checked for dechlorination? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	14.
Headspace in VOA Vials (>5-6mm)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	15.
Trip Blank Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	16.
Trip Blank Custody Seals Present? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased):	

**CLIENT NOTIFICATION/RESOLUTION**      Field Data Required?  Yes  No  
 Person Contacted: \_\_\_\_\_ Date/Time: \_\_\_\_\_  
 Comments/Resolution: \_\_\_\_\_

Project Manager SCURF Review:   /  /        Date: 2/3/16 / 2/3/16  
 Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers).

### CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

<b>Section A</b> Required Client Information:		<b>Section B</b> Required Project Information:		<b>Section C</b> Invoice Information:		Page: _____ of _____	
Company: <u>SCDHEC / UST Div</u>		Report To: <u>S. Bryant</u>		Attention:		1995870	
Address: <u>2600 Bull St</u>		Copy To: <u>M. Hrusak</u>		Company Name:		REGULATORY AGENCY	
<u>Col., S.C. 29201</u>		Purchase Order No.: <u>CA# 51541/460046298</u>		Address:		<input type="checkbox"/> NPDES <input type="checkbox"/> GROUND WATER <input type="checkbox"/> DRINKING WATER <input checked="" type="checkbox"/> UST <input type="checkbox"/> RCRA <input type="checkbox"/> OTHER	
Email To:		Project Name: <u>Steady Simmons</u>		Pace Quote Reference:		Site Location	
Phone: <u>803 898-2544</u> Fax:		Project Number: <u>18856</u>		Pace Project Manager:		STATE: <u>SC</u>	
Requested Due Date/TAT:				Pace Profile #:			

ITEM #	Section D Required Client Information	Matrix Codes MATRIX / CODE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED				SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives							Analysis Test ↓ Y/N	Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)	Pace Project No. / Lab I.D.							
					COMPOSITE START		COMPOSITE END/GRAB				Unpreserved	H <sub>2</sub> SO <sub>4</sub>	HNO <sub>3</sub>	HCl	NaOH	Na <sub>2</sub> S <sub>2</sub> O <sub>5</sub>	Methanol					Other						
					DATE	TIME	DATE	TIME																				
1	WSW-1							02/23/16	1115	6		X	X					X	X	X								001
2	WSW-1 Dup								1125	6		X	X					X	X	X								002
3	Field Blank								1135	6		X	X					X	X	X								003
4	Trip Blank									2								X										004

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS																							
Low Detection Limits	Ed Manderhall / UST Div.	02/03/16	8:52	Juan Johnson	2-3-16	8:52																								
	Juan Johnson	2-3-16	1328	Gregory P. Lee	2-3-16	1328	2.9	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

ORIGINAL

<b>SAMPLER NAME AND SIGNATURE</b>		Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER:	<u>Bob J. Manderhall / Ed Manderhall</u>				
SIGNATURE of SAMPLER:	<u>[Signature]</u>				
DATE Signed (MM/DD/YY):					
		<u>02/23/16</u>			

\*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.



Catherine E. Heigel, Director

*Promoting and protecting the health of the public and the environment*

MR WAYNE THOMPSON  
16657 GRAYS HIGHWAY  
EARLY BRANCH SC 29916-8016

MAR 16 2016



Re: Water Supply Well Laboratory Results  
Steady Simmons, 16661 Grays Highway, Early Branch, SC  
UST Permit # 18856  
Groundwater Laboratory Analysis received February 22, 2016  
Jasper County

Dear Mr. Thompson:

In response to a release of petroleum from a former Underground Storage Tank (UST) system at the referenced facility, UST Management Division personnel sampled your water supply well on November 19, 2015. No petroleum related chemicals were detected.

To verify the results, Division personnel re-sampled your well to confirm the results. Your water supply well was sampled again on February 2, 2016, and the laboratory results of that sample confirmed that no petroleum related chemicals were detected.

One metal, barium, was detected at 20.5 parts per million (ppm), which is significantly lower than the Maximum Contaminant Level (MCL) for barium in drinking water of 2,000 ppm. A copy of the laboratory reports are enclosed for your information.

If you have any questions, you may contact me at (803) 898-7542 or hornsoms@dhec.sc.gov.

Sincerely,

Minda Hornosky, Hydrogeologist  
Assessment Section  
Underground Storage Tank Management Division  
Bureau of Land and Waste Management

enc: Pace Analytical Laboratory Report received February 22, 2016  
Agency for Toxic Substances and Disease Registry

cc: Technical File (w/enc)



Catherine E. Heigel, Director

*Promoting and protecting the health of the public and the environment*

BRYAN SHANE  
MIDLANDS ENVIRONMENTAL CONSULTANTS INC  
PO BOX 854  
LEXINGTON SC 29071

APR 22 2016



Re: QAPP Contractor Addendum Directive for Small Scope Contract  
Solicitation # 5400006561; PO# 4600450850

Dear Mr. Shane:

Based on the award of the referenced bid package, enclosed are the information packets to conduct assessments at several facilities. Please submit the Site-specific Quality Assurance Project Plan for an IGWA, Tier I or Assessment Plan, and Assessment Component Cost Agreement as necessary, to my attention **within fifteen (15) days from the date of this correspondence**. Plan implementation shall not commence prior to receipt of written technical and financial approval from the Department. The facilities will be assigned a Cost Agreement (CA) numbers once the QAPP Contractor Addendum has been approved by the project manager. Please reference the CA numbers and Purchase Order # 4600450850 on the appropriate invoices submitted for payment. As specified in the referenced bid, **the completed invoice forms and associated reports (include contract certification number) are expected on or before the designated due date (see below) after the technical and cost approval from the project manager.**

UST Permit #	Facility	County	Project Manager	Work Scope	Due Date*
18856	Steady Simmons	Jasper	Hornosky	MWI	60 Days

\*From receipt of Notice to Proceed letter

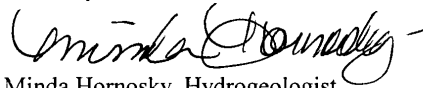
Midland's Environmental Consultants, Inc. will perform services at the sites on behalf of the site's UST owners; however, payments will be made from the State Underground Petroleum Environmental Response Bank (SUPERB) Account. The site's UST owners have no obligation for payment for this scope of work.

**Please note if there are any changes in the established cost agreement amounts (e.g., additional water supply wells sampled, additional well footage, etc.) contact the site's project manager for technical and/or financial approval. Failure to do so prior to submittal of invoice may result in delay of payment.**

IGWA, Tier I or Assessment Quality Assurance Project Plan, Implementation and Report submittal shall be performed in accordance with the referenced contract. Per Section 3.4.2., a late fee of \$50.00/day (not to exceed 20% of the cost agreement total) may be levied for each day the report is submitted after the deadline established in the Notice to Proceed letter.

Please provide this office with a schedule of drilling dates and coordinate all work with me before commencing work at the facility. In accordance with the bid specification, a bi-monthly status report of the project should be provided by the 5<sup>th</sup> and 20<sup>th</sup> of each month via e-mail to my attention. If any quality assurance problems arise, you must contact me within 24 hours via phone or e-mail. If you have any questions or need further assistance, please contact me at (803) 896-6395.

Sincerely,

A handwritten signature in black ink, appearing to read "Minda Hornosky". The signature is written in a cursive style with a horizontal line extending to the right.

Minda Hornosky, Hydrogeologist  
Assessment Section  
Underground Storage Tank Management Division  
Bureau of Land and Waste Management

enc: Information Packet

cc: Minda Hornosky, UST Management Division (w/o enc)  
Technical Files (w/enc)



UNDERGROUND STORAGE TANK PROGRAM  
BUREAU OF LAND AND WASTE MANAGEMENT  
2600 Bull Street, Columbia, South Carolina 29201  
Telephone: 803-896-6240

MEMORANDUM

TO: Bryan Shane, Midlands Environmental Consultants, Inc.

FROM: Minda Hornosky

RE: Site-Specific Work Plan Notice to Proceed

Facility Name: Steady Simmons

Permit Number: 18856

County: Jasper

Work To Be Completed: Install a well pair (shallow well to depth of 17 feet and a deep well to depth 40 feet) and complete a subsequent survey. Wells will be sampled under sampling contract.

CA# 52322

**CRAWFORD**  
**ENVIRONMENTAL**  
**SERVICES**

**Access Agreement**

I, \_\_\_\_\_, hereby certify that I am the owner of record or otherwise have legal right to grant entry and access to the property for the purpose described below ("owner") and do hereby grant the South Carolina Department of Health and Environmental Control (SCDHEC), its consulting firm Crawford Environmental Services (CES) and its agents, employees, subcontractors, and assigns the right to enter upon the property located at or described as:

Address: \_\_\_\_\_

Tax Map ID: \_\_\_\_\_

For the purpose of performing a Tier II Environmental Site Assessment, as requested by SCDHEC, which will include the following categories of work, if necessary,

- ❖ Drilling and installation of field screening test borings
- ❖ Spread non-contaminated drill cuttings at locations determined by property owner
- ❖ Drilling and installation of groundwater monitoring wells
- ❖ Periodically measuring groundwater, about once every three months
- ❖ Collection of groundwater samples, about once every three months
- ❖ Maintenance of monitoring wells

Access to the monitoring well(s) will be needed for a period not likely to exceed five years after monitoring well installation has been completed. At the time, the property owner may contact SCDHEC or CES if there are any questions or concerns about the work on the property. This permission to enter the property is effective upon execution of this document. This permission to Enter Property is granted with consideration of CES making reasonable restoration to the property by the conclusion of assessment activities resulting from CES activities on site.

**Consented to Giving Access:**

\_\_\_\_\_

Property Owners Signature  
*[Handwritten Signature]*

Printed Name

\_\_\_\_\_

Telephone Number

Access Denied:

Property Owners Signature

Printed Name

MID-ATLANTIC REGION  
15 CH. RCH AVENUE, SW  
ROANOKE, VIRGINIA 24011  
OFFICE 540 343 6256  
FAX 540 343 6259  
ccrawford@crawfordenvironmental.com

Reference UST Permit #

\_\_\_\_\_

**Check Any That Apply:**

- Please provide a copy of the report
- Electronic Copy
- Paper Copy

Please return to  
Crawford Environmental Services  
104 Corporate Blvd Suite 412  
West Columbia, SC 29196

SOUTHEAST REGION  
104 CORPORATE BLVD, SUITE 412  
WEST COLUMBIA, SOUTH CAROLINA 29169  
OFFICE 803 708 0079  
FAX 803 708 8137  
dubnen@crawfordenvironmental.com

**CRAWFORD  
ENVIRONMENTAL  
SERVICES**

**Access Agreement**

I, \_\_\_\_\_, hereby certify that I am the owner of record or otherwise have legal right to grant entry and access to the property for the purpose described below ("owner") and do hereby grant the South Carolina Department of Health and Environmental Control (SCDHEC), its consulting firm Crawford Environmental Services (CES) and its agents, employees, subcontractors, and assigns the right to enter upon the property located at or described as:

Address: 1635 De... ..

Tax Map ID: W... ..

For the purpose of performing a Tier II Environmental Site Assessment, as requested by SCDHEC, which will include the following categories of work, if necessary:

- ❖ Drilling and installation of field screening test borings
- ❖ Spread non-contaminated drill cuttings at locations determined by property owner
- ❖ Drilling and installation of groundwater monitoring wells
- ❖ Periodically measuring groundwater, about once every three months
- ❖ Collection of groundwater samples, about once every three months
- ❖ Maintenance of monitoring wells

Access to the monitoring well(s) will be needed for a period not likely to exceed five years after monitoring well installation has been completed. At the time, the property owner may contact SCDHEC or CES if there are any questions or concerns about the work on the property. This permission to enter the property is effective upon execution of this document. This permission to Enter Property is granted with consideration of CES making reasonable restoration to the property by the conclusion of assessment activities resulting from CES activities on site.

**Consented to Giving Access:**

\_\_\_\_\_  
Property Owners Signature *B...*  
*to health services*

Printed Name \_\_\_\_\_

Telephone Number \_\_\_\_\_

Access Denied: \_\_\_\_\_

Property Owners Signature \_\_\_\_\_

Printed Name \_\_\_\_\_  
MID-ATLANTIC REGION  
15 CHURCH AVENUE, SW  
ROANOKE, VIRGINIA 24011  
OFFICE 540.343.6256  
FAX 540.343.6259  
ccrawford@crawfordenvironmental.com

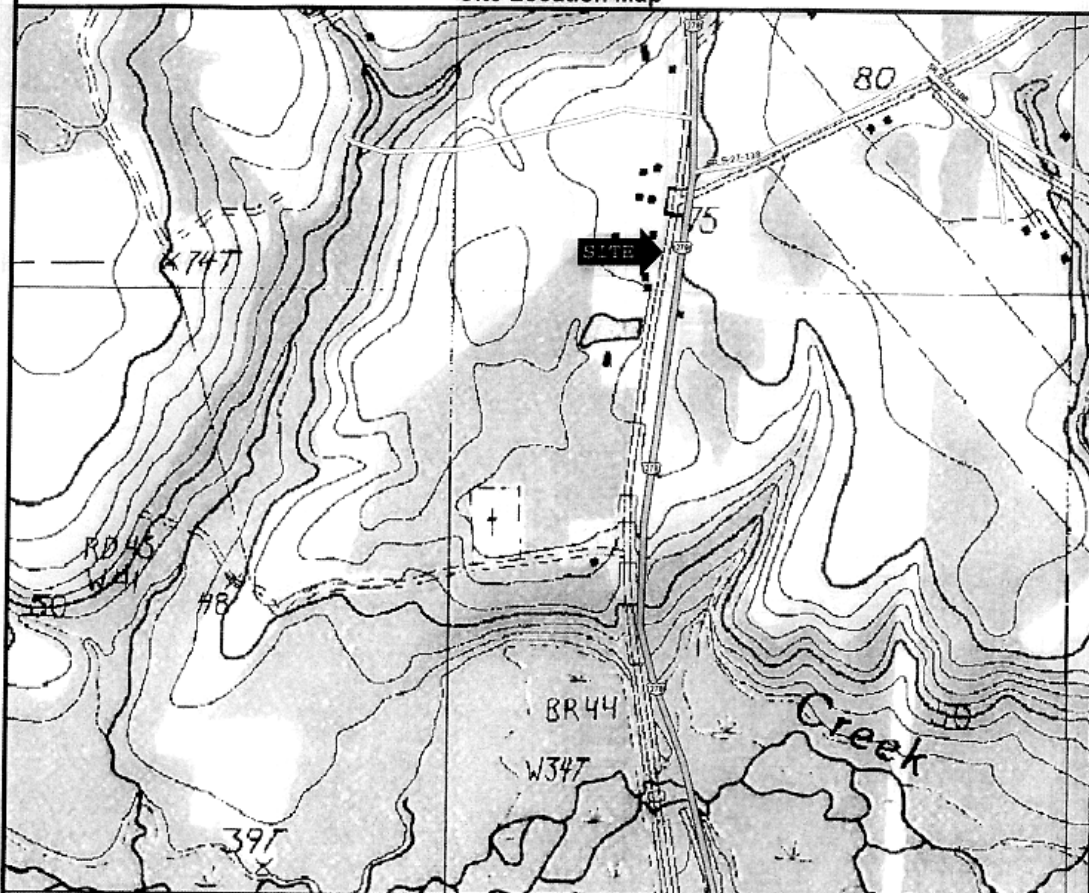
Reference UST Permit #: 13365

**Check Any That Apply:**

- Please provide a copy of the report
- Electronic Copy
- Paper Copy

Please return to:  
Crawford Environmental Services  
104 Corporate Blvd, Suite 412  
West Columbia, SC 29196  
SOUTHEAST REGION  
104 CORPORATE BLVD, SUITE 412  
WEST COLUMBIA, SOUTH CAROLINA 29169  
OFFICE 803.708.0079  
FAX 803.708.8137  
dubrien@crawfordenvironmental.com

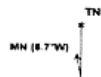
**FIGURE 1**  
**Site Location Map**



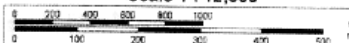
Data use subject to license.

© DeLorme. DeLorme Topo USA® 7.0.

www.delorme.com



Scale 1 : 12,000



1" = 1,000.0 ft

Data Zoom 15-0

**CRAWFORD**  
**ENVIRONMENTAL**  
**SERVICES**

*Division of C.F. Crawford, Inc.*  
104 Corporate Blvd.  
West Columbia, SC 29169

803-708-0079 (office) 803-708-8137 (fax)

**GRAYS, SOUTH CAROLINA**

Source: DeLorme Topo USA 7.0  
Scale: 1:12,000 Contour Interval: 10 Feet

Steady Simmons  
16661 Grays Highway  
Early Branch, SC 29916-08016  
UST Permit: 18856

Project: Tier II Assessment

Client: SCDHEC

CES Job # 15 102

Date: January 2012



Table 2

Facility Name:  
Address:

Steady Simmons  
16661 Grays Highway, Early Branch, SC 29916

UST Permit ID:  
CES Project Number:

18856  
15.102

**Well Construction and Historical Groundwater Elevation Summary**

Monitor Well	Well Depth (ft)	Screened Interval		Top of Casing (ft)	Date Installed	Date Developed	Date Measured	Depth to Product (ft)	Depth to Water (ft)	Product Thickness (ft)	Product Elevation (ft)	Groundwater Elevation (ft)
MW-1R	17	7	17	69.69	11/1/2011	11/18/2011	4/13/2012	0	11.12	0	0	58.57
							1/31/2012	0	11.64	0	0	58.05
							11/18/2011	0	12.37	0	0	57.32
MW-2	17	7	17	70.1	11/1/2011	11/18/2011	4/13/2012	0	11.13	0	0	58.97
							1/31/2012	0	11.54	0	0	58.56
							11/18/2011	0	12.67	0	0	57.43
MW-3	17	7	17	68.59	11/1/2011	11/18/2011	4/13/2012	0	11.32	0	0	57.27
							1/31/2012	0	11.16	0	0	57.43
							11/18/2011	0	11.33	0	0	57.26
MW-4	17	7	17	67.95	11/1/2011	11/18/2011	4/13/2012	0	9.32	0	0	58.63
							1/31/2012	0	9.78	0	0	58.17
							11/18/2011	0	10.99	0	0	56.96
MW-5	15	5	15	71.78	4/10/2012	4/11/2012	4/13/2012	0	12.51	0	0	59.27
MW-6	15	5	15	71.47	4/10/2012	4/11/2012	4/13/2012	0	12.89	0	0	58.58
MW-7	15	5	15	71.27	4/10/2012	4/11/2012	4/13/2012	0	12.46	0	0	58.81
MW-8	15	5	15	70.90	4/10/2012	4/11/2012	4/13/2012	0	12.05	0	0	58.85
MW-9	15	5	15	70.70	4/10/2012	4/11/2012	4/13/2012	0	12.00	0	0	58.70
MW-10	15	5	15	66.65	4/10/2012	4/11/2012	4/13/2012	0	7.35	0	0	59.30
MW-11	15	5	15	67.16	4/10/2012	4/11/2012	4/13/2012	0	8.38	0	0	58.78
MW-12	15	5	15	67.18	4/10/2012	4/11/2012	4/13/2012	0	8.29	0	0	58.89
MW-13	15	5	15	68.50	4/10/2012	4/11/2012	4/13/2012	0	9.82	0	0	58.68
MW-14	15	5	15	70.14	4/10/2012	4/11/2012	4/13/2012	0	11.12	0	0	59.02
MW-15	20	10	20	70.01	4/10/2012	4/11/2012	4/13/2012	0	11.00	0	0	59.01
MW-16	20	10	20	71.85	4/10/2012	4/11/2012	4/13/2012	0	12.13	0	0	59.52
<b>Deep Wells</b>												
DW-1	40	35	40	70.95	4/10/2012	4/11/2012	4/13/2012	0	12.50	0	0	58.45
DW-2	40	35	40	70.89	4/10/2012	4/11/2012	4/13/2012	0	13.34	0	0	57.55
DW-3	40	35	40	67.20	4/10/2012	4/11/2012	4/13/2012	0	13.29	0	0	53.91
DW-4	38	33	38	67.51	4/10/2012	4/11/2012	4/13/2012	0	19.21	0	0	48.30
DW-5	38	33	38	70.02	4/10/2012	4/11/2012	4/13/2012	0	12.32	0	0	57.70
DW-6	36	31	36	71.41	4/10/2012	4/11/2012	4/13/2012	0	12.29	0	0	59.12
DW-7	36	31	36	69.82	4/10/2012	4/11/2012	4/13/2012	0	11.13	0	0	58.89

Wells developed using ball / surge method

Shallow monitoring wells installed

Telescoping wells installed

Recovery Wells Installed

12

7

0

Footage

Footage

Footage

190

268

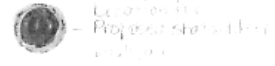
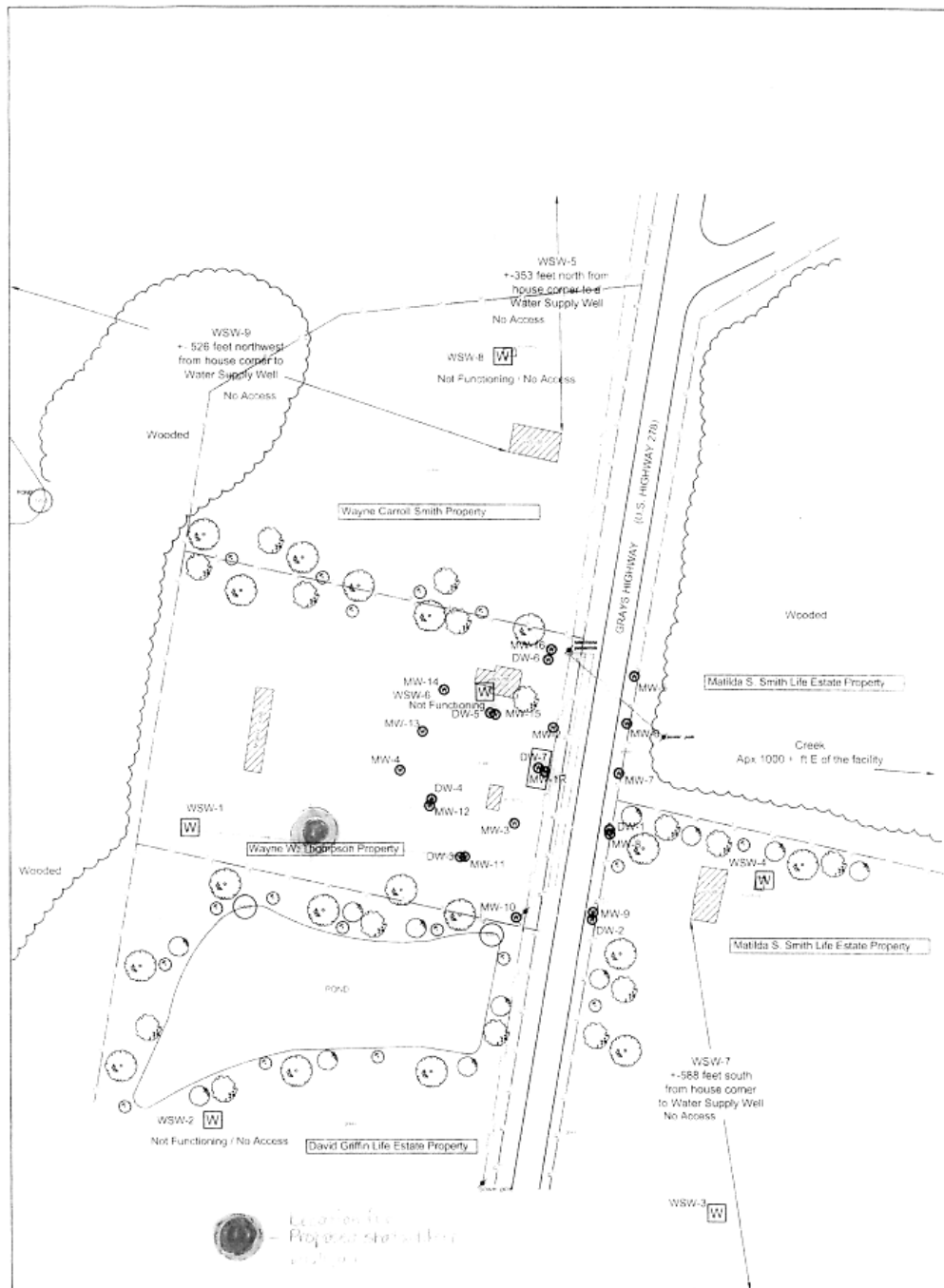
0

**CRAWFORD  
ENVIRONMENTAL  
SERVICES**

**Bolded Values** corrected for presence of free product

n/a = not applicable

INA = Information not available



Notes  
 1. Diagram based R/S Survey, Aerial Photographs, GIS records and CES field notes

**GRAPHIC SCALE**  
 0 10 20 30 40  
 ( In Feet )

**Legend**

- UST Basin
- Building
- Monitoring Well
- Water Supply Well
- Property Line
- Surface Water Sample

Figure 2  
**Site Facility Base Map**  
 Steady Simmons  
 16651 Grays Highway  
 Early Branch, SC 29916

Prepared by JSR		Project No. 15,103
Drawn by JSR		Date 5/4/12
Checked by HDO		Revision 0
<small>134 Corporate Blvd, Suite 412        West Columbia, SC 29220        803.786.0018 ext.        803.786.4119 (fax)</small>		<small>Sheet No. 18856</small>

**SCDHEC UST Management Tracking**

**BOTH billable and unbillable tanks**

**Site Information for N-18856 Facility: STEADY SIMMONS**

<u>Bus.</u>	16661 GRAYS HWY	<u>Phone</u>	
<u>Address</u>	EARLY BRANCH SC 29916-8016	<u>County</u>	Jasper
		<u>District</u>	Beaufort EQC Office
<u>Category</u>	Retail Sales	<u>Last Inspection</u>	
		<u>Trans. of Ownership</u>	
<u>Tank Owner</u>	SIMMONS, STEADY		
<u>Bus.</u>		<u>Financial Responsibility</u>	
<u>Address</u>		<u>Financial Mechanism</u>	<u>Expiration Date</u>
<u>Operator</u>		<u>Training Date</u>	
<u>Bus.</u>			
<u>Address</u>		<u>Phone</u>	
<u>Land Owner</u>	THOMPSON, WAYNE		
<u>Bus.</u>	16657 GRAYS HWY	<u>Phone</u>	803-398-7718
<u>Address</u>	EARLY BRANCH SC 29916		
<u>Tanks</u>	2	<u>Billable</u>	0
		<u>Aband.</u>	2
		<u>Other</u>	0
	<u>Compliance Operator(s)</u>	<u>ID</u>	

Significant? Y Memo Date: 11/19/13

Site Memo: The owner is defunct. If there is to a release under Steady Simmons, it needs to be designated orphan site.

Significant? N Memo Date: 01/31/14

Site Memo: There was a \$1,195.00 payment showing towards the 25k deductible in error. Deductible cost was changed back to 25k. RP never made a payment towards the deductible.

Significant? Y Memo Date: 10/31/02

Site Memo: Per Connie Anderson these tanks were RNU tanks based on the observations of the inspector, Andy Ruocco, at the site. No fees will be assessed.

<u>Rel. No.</u>	1	<u>Reported</u>	09/09/02	<u>Status</u>	Confirmed - Active	<u>Product</u>	Petroleum	<u>Compl Required</u>	Y
<u>Active Tnks</u>		<u>NFA</u>		<u>Fin. Type</u>	With SUPERB Cos	<u>RBCA / Score</u>	2BB 41	<u>Compliance Met</u>	Y
		<u>Confirmed</u>	10/31/02	<u>Emer. Resp.</u>		<u>Superb Qualified</u>		<u>Compliance Met Dt</u>	11/06/02
		<u>CU Init.</u>	08/07/03	<u>Abate. Met</u>	07/16/02	<u>Superb Determ. Dt</u>		<u>Fin Res Mechanism</u>	
		<u>CU Compl.</u>		<u>Transferred</u>		<u>Project Manager</u>	HORNOSKY MINDA S		
		<u>CU &gt; MCL</u>		<u>Source</u>	UST	<u>Responsible Party</u>	SIMMONS STEADY		

SCDHEC UST Management Tracking

BOTH billable and unbillable tanks

Site Information for N-18856 Facility: STEADY SIMMONS

<u>Tank No.</u>	1	<u>Const.</u>	<u>Class</u>	N	<u>Tank Const. Mat.</u>	SL	<u>Pipe Const. Mat.</u>	
		<u>Operate</u>	<u>T Status</u>	ABD	<u>Tank Protect.</u>	CP	<u>Pipe Protect.</u>	CP
		<u>Notify</u>	<u>Capacity</u>	1,000	<u>Tank Cont. Meth.</u>		<u>Pipe Cont. Meth.</u>	
		<u>Variance</u>	<u>Product</u>	GN	<u>Overfill Type</u>	Ver	<u>Piping Type</u>	
		<u>Compl.</u>	<u>C Status</u>		<u>Age @ Notif.</u>	0	<u>Dist. to Well</u>	
		<u>Spill Det.</u>	<u>Left Gal.</u>		<u>Owner @ ABD</u>	THOMPSON, WAYNE	<u>Last Use</u>	01/01/86
		<u>Aband.</u>	<u>Method</u>	RG	<u>CAS No.</u>	<u>Chem.</u>		
		<u>Under Dispenser Cont.</u>	N	<u>Drop Tube</u>	N	<u>Tank Leak Det.</u>	<u>Pipe Leak Det.</u>	
<u>Tank No.</u>	2	<u>Const.</u>	<u>Class</u>	N	<u>Tank Const. Mat.</u>	SL	<u>Pipe Const. Mat.</u>	
		<u>Operate</u>	<u>T Status</u>	ABD	<u>Tank Protect.</u>	CP	<u>Pipe Protect.</u>	CP
		<u>Notify</u>	<u>Capacity</u>	550	<u>Tank Cont. Meth.</u>		<u>Pipe Cont. Meth.</u>	
		<u>Variance</u>	<u>Product</u>	GN	<u>Overfill Type</u>	Ver	<u>Piping Type</u>	
		<u>Compl.</u>	<u>C Status</u>		<u>Age @ Notif.</u>	0	<u>Dist. to Well</u>	
		<u>Spill Det.</u>	<u>Left Gal.</u>		<u>Owner @ ABD</u>	THOMPSON, WAYNE	<u>Last Use</u>	01/01/86
		<u>Aband.</u>	<u>Method</u>	RG	<u>CAS No.</u>	<u>Chem.</u>		
		<u>Under Dispenser Cont.</u>	N	<u>Drop Tube</u>	N	<u>Tank Leak Det.</u>	<u>Pipe Leak Det.</u>	





May 5, 2016

Ms. Minda Hornosky, Hydrogeologist  
Assessment Section  
Assessment and Corrective Action Division  
Underground Storage Tank Program  
Bureau of Land and Waste Management  
South Carolina Department of Health  
and Environmental Control  
2600 Bull Street  
Columbia, South Carolina 29201



Subject: Site-Specific Work Plan (Small Scope Contract)  
Steady Simmons  
Early Branch, South Carolina  
SCDHEC Site ID Number ~~418856~~ 18856  
MECI Project Number 15-5552  
Certified Site Rehabilitation Contractor UCC-0009


Dear Ms. Hornosky,

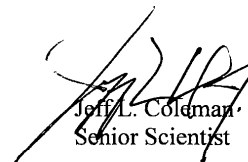
Midlands Environmental Consultants Inc. (MECI) is pleased to submit the attached Site-Specific Work Plan for the referenced site.

On May 5, 2016, MECI personnel performed a site visit to the subject site to evaluate conditions, locate monitoring wells/potential receptors, and identify potential problems for future assessment activities.

If you have any question or comments please feel free to contact us at 803-808-2043.

Sincerely,  
**Midlands Environmental Consultants, Inc.**

  
Todd D. Elder  
Staff Hydrogeologist

  
Jeff L. Coleman  
Senior Scientist



**Site-Specific Work Plan for Approved ACQAP  
Underground Storage Tank Management Division**

To: Ms. Minda Homosky (SCDHEC Project Manager)  
 From: Mr. Jeff Coleman (Contractor Project Manager)  
 Contractor: Midlands Environmental Consultants, Inc. UST Contractor Certification Number: 009

Facility Name: Steady Simmons UST Permit #: 18856  
 Facility Address: 16661 Grays Highway, Early Branch, SC 29916  
 Responsible Party: Steady Simmons Phone: N/A  
 RP Address: N/A  
 Property Owner (if different): Wayne Thompson  
 Property Owner Address: 16657 Grays Highway, Early Branch, SC 29916  
 Current Use of Property: Residence

**Scope of Work** (Please check all that apply)  
 IGWA  Tier II  Groundwater Sampling  GAC  
 Tier I  Monitoring Well Installation  Other \*\*\*\*\*Subsequent Survey\*\*\*\*\*

**Analyses** (Please check all that apply)  
 Groundwater/Surface Water:  
 BTEXNMDCA (8260B)  Lead  BOD  Methane  
 Oxygenates (8260B)  8 RCRA Metals  Nitrate  Ethanol  
 EDB (8011)  TPH  Sulfate  Dissolved Iron  
 PAH (8270D)  pH  Other \_\_\_\_\_  
 Soil:  
 BTEXN  8 RCRA Metals  TPH-DRO (3550B/8015B)  Grain Size  
 PAH  Oil & Grease (9071)  TPH-GRO (5030B/8015B)  TOC  
 Air:  
 BTEXN

**Sample Collection** (Estimate the number of samples of each matrix that are expected to be collected.)  
 \_\_\_\_\_ Soil \_\_\_\_\_ Water Supply Wells \_\_\_\_\_ Air \_\_\_\_\_ Field Blank  
 \_\_\_\_\_ Monitoring Wells \_\_\_\_\_ Surface Water \_\_\_\_\_ Duplicate \_\_\_\_\_ Trip Blank

**Field Screening Methodology**  
 Estimate number and total completed depth for each point, and include their proposed locations on the attached map.  
 # of shallow points proposed: \_\_\_\_\_ Estimated Footage: \_\_\_\_\_ feet per point  
 # of deep points proposed: \_\_\_\_\_ Estimated Footage: \_\_\_\_\_ feet per point  
 Field Screening Methodology: \_\_\_\_\_

**Permanent Monitoring Wells**  
 Estimate number and total completed depth for each well, and include their proposed locations on the attached map.  
 # of shallow wells: 1 Estimated Footage: 1 x 17' feet per point  
 # of deep wells: 1 Estimated Footage: 1 x 40' feet per point  
 # of recovery wells: \_\_\_\_\_ Estimated Footage: \_\_\_\_\_ feet per point  
 Monitoring Well development method (consistent with SOP): Hand Bailing, Surging, Pumping (Dependant on formation)  
 Comments, if warranted:  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

UST Permit #: 18856 Facility Name: Steady Simmons

---

**Implementation Schedule** (Number of calendar days from approval)  
 Field Work Start-Up: 5/2/2016 Field Work Completion: 6/2/2016  
 Report Submittal: 7/2/2016 # of Copies Provided to Property Owners: 1

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**Aquifer Characterization**  
 Pump Test:  Slug Test:  (Check one and provide explanation below for choice)  
 \_\_\_\_\_  
 \_\_\_\_\_

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**Investigation Derived Waste Disposal**  
 Soil: 1.5 Tons Purge Water: 100.0 Gallons  
 Drilling Fluids: \_\_\_\_\_ Gallons Free-Phase Product: \_\_\_\_\_ Gallons

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**Additional Details For This Scope of Work**  
 For example, list wells to be sampled, wells to be abandoned/repared, well pads/bolts/caps to replace, details of AFVR event, etc.  
 -Monitoring wells will be installed at locations and depths predetermined by SCDHEC.  
 \_\_\_\_\_  
 -Following the well installation, a subsequent survey will be performed.  
 \_\_\_\_\_  
 \_\_\_\_\_

---

**Compliance With Annual Contractor Quality Assurance Plan (ACQAP)**  
Yes Laboratory as indicated in ACQAP? (Yes/No) If no, indicate laboratory information below.  
 Name of Laboratory: \_\_\_\_\_  
 SCDHEC Certification Number: \_\_\_\_\_  
 Name of Laboratory Director: \_\_\_\_\_  
Yes Well Driller as indicated in ACQAO? (Yes/No) If no, indicate driller information below.  
 Name of Well Driller: \_\_\_\_\_  
 SCLLR Certification Number: \_\_\_\_\_  
N/A Other variations from ACQAP. Please describe below.  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

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**Attachments**

1. Attach a copy of the relevant portion of the USGS topographic map showing the site location.
2. Prepare a site base map. This map must be accurately scaled, but does not need to be surveyed. The map must include the following:
 

North Arrow	Proposed monitoring well locations
Location of property lines	Legend with facility name and address, UST permit number, and bar scale
Location of buildings	Streets or highways (indicate names and numbers)
Previous soil sampling locations	Location of all present and former ASTs and USTs
Previous monitoring well locations	Location of all potential receptors
Proposed soil boring locations	
3. Assessment Component Cost Agreement, SCDHEC Form D-3664

**ASSESSMENT COMPONENT COST AGREEMENT**  
**SOUTH CAROLINA**  
Department of Health and Environmental Control  
Underground Storage Tank Management Division  
State Underground Petroleum Environmental Response Bank Account  
**CONTRACT PO#4600450850**

**Facility Name:** Steady Simmons

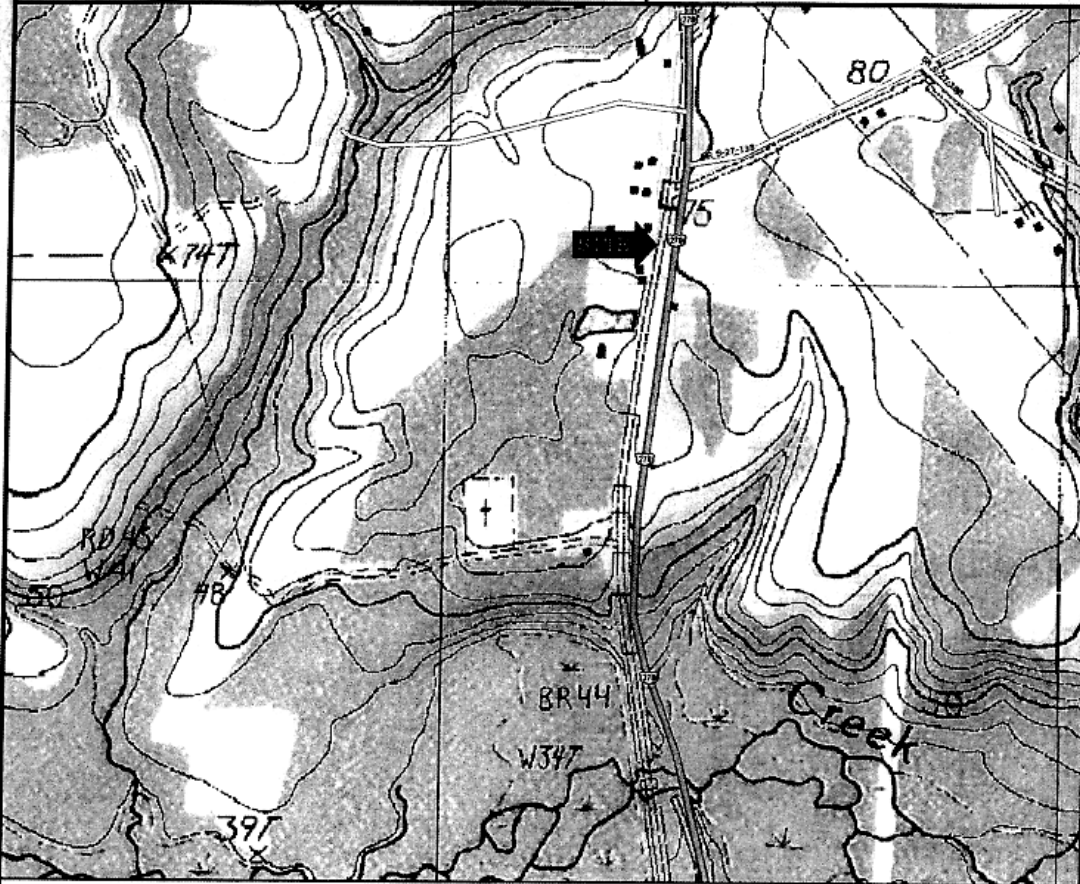
**UST Permit #:** 18856

**Cost Agreement #:** Proposal

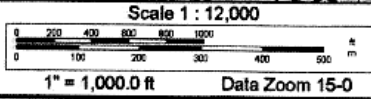
ITEM	QUANTITY	UNIT	UNIT PRICE	TOTAL
<b>1. Plan Preparation</b>				
A1. Site-specific Work Plan	1	each	\$150.00	\$150.00
B1. Tax Map		each	\$70.00	\$0.00
<b>2. A1. Receptor Survey *</b>		each	\$0.00	\$0.00
<b>3. Survey</b>				
A1. Comprehensive Survey		each	\$1,000.00	\$0.00
<b>4. Mob/Demob</b>				
A1. Equipment	1	each	\$1,000.00	\$1,000.00
B1. Personnel	3	each	\$325.00	\$975.00
<b>5. A1. Soil Borings (hand auger)</b>		foot	\$0.00	\$0.00
<b>6. Soil Borings (Not for Screening)</b>				
AA. Standard		per foot	\$6.00	\$0.00
<b>9. Well Installation (per foot)</b>				
A1. Water Table (hand augered)		per foot	\$0.00	\$0.00
B1. Water Table (drill rig)	57	per foot	\$20.87	\$1,189.59
CC. Telescoping		per foot	\$34.87	\$0.00
DD. Rock Drilling		per foot	\$10.00	\$0.00
HH. Recovery Well (4" diameter)		per foot	\$32.87	\$0.00
K. Re-develop Existing Well		per foot	\$4.00	\$0.00
<b>10. Groundwater Sample Collection / Gauge Depth to Water or Product</b> includes gauge depth to water and product, ph,turbidity, specific conductivity, and dissolved oxygen if sampled is collected				
A1. Groundwater Purge		per well/receptor	\$25.00	\$0.00
E1. Gauge Well only		per well	\$0.00	\$0.00
F1. Sample Below Product		per well	\$0.00	\$0.00
G1. Passive Diffusion Bag		each	\$20.00	\$0.00
<b>11. Laboratory Analyses-Groundwater</b>				
A2. BTEXNM+Oxyg's+1,2 DCA+Eth(8260B)		per sample	\$48.00	\$0.00
AA1. Lead, Filtered		per sample	\$15.00	\$0.00
D1. PAH's		per sample	\$0.00	\$0.00
E1. Lead		per sample	\$15.00	\$0.00
F1. EDB by EPA 8011		per sample	\$24.00	\$0.00
G1. 8 RCRA Metals		per sample	\$0.00	\$0.00
H1. TPH (9070)		per sample	\$0.00	\$0.00
<b>11. Analyses-Soil</b>				
R1. PAH's		per sample	\$0.00	\$0.00
S1. 8 RCRA Metals		per sample	\$0.00	\$0.00
U1. TPH-DRO (3550C/8015C)		per sample	\$0.00	\$0.00
W1. Grain size/hydrometer		per sample	\$150.00	\$0.00
X1. Total Organic Carbon		per sample	\$0.00	\$0.00

<b>12. Aquifer Characterization</b>				
B1. Slug Test		per test	\$100.00	\$0.00
<b>16. A1. Subsequent Survey</b>	1	each	\$300.00	\$300.00
<b>17. Disposal (gallons or tons)*</b>				
AA. Wastewater	100	gallon	\$1.25	\$125.00
BB. Free Product		gallon	\$0.00	\$0.00
C1. Soil Treatment/Disposal	1.5	ton	\$50.00	\$75.00
D1. Drilling fluids		gallon	\$0.00	\$0.00
<b>18. Miscellaneous</b>				
Soil Analysis Lead		each	\$12.00	\$0.00
Soil Analysis BTEXNM+Oxyg's+1,2 DCA+Eth(8260B)		each	\$32.00	\$0.00
Replace lock		each	\$10.00	\$0.00
High Strength Well Pad Replacement		each	\$60.00	\$0.00
Groundwater No-Purge or Duplicate or Field Blank		per well	\$15.00	\$0.00
Replace 2x2 MW Pad		each	\$0.00	\$0.00
Replace 4x4 MW Pad		each	\$0.00	\$0.00
Replace well vault & MW pad up to 4x4		each	\$400.00	\$0.00
Water Supply Well/ Surface Water		per well	\$5.00	\$0.00
<b>Abandonment (per foot) Not Part of Screening</b>				
Existing monitoring well 4" diam or smaller		per foot	\$3.00	\$0.00
Existing monitoring well larger than 4" dia		per foot	\$0.00	\$0.00
		each	\$0.00	\$0.00
		each	\$0.00	\$0.00
		each	\$0.00	\$0.00
<b>20. Tier I Assessment (Use DHEC 3665 form)</b>		standard	\$5,468.00	\$0.00
<b>21. IGWA (Use DHEC 3666 form)</b>		standard	\$1,237.00	\$0.00
<b>25. Well Repair</b>				
A1. Additional Copies of the Report Delivered		each	\$0.00	\$0.00
F1. Replace well cover bolts		each	\$0.00	\$0.00
G. Replace locking well cap & lock		each	\$0.00	\$0.00
H1. Replace/Repair stick-up & MW pad up to 4x4		each	\$0.00	\$0.00
II. Convert Flush-mount to Stick-up*		each	\$0.00	\$0.00
J1. Convert Stick-up to Flush-mount*		each	\$0.00	\$0.00
K1. Replace missing/illegible well ID plate		each	\$10.00	\$0.00
<b>TOTAL</b>				<b>\$3,814.59</b>

**FIGURE 1**  
**Site Location Map**



Data use subject to license.  
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 www.delorme.com

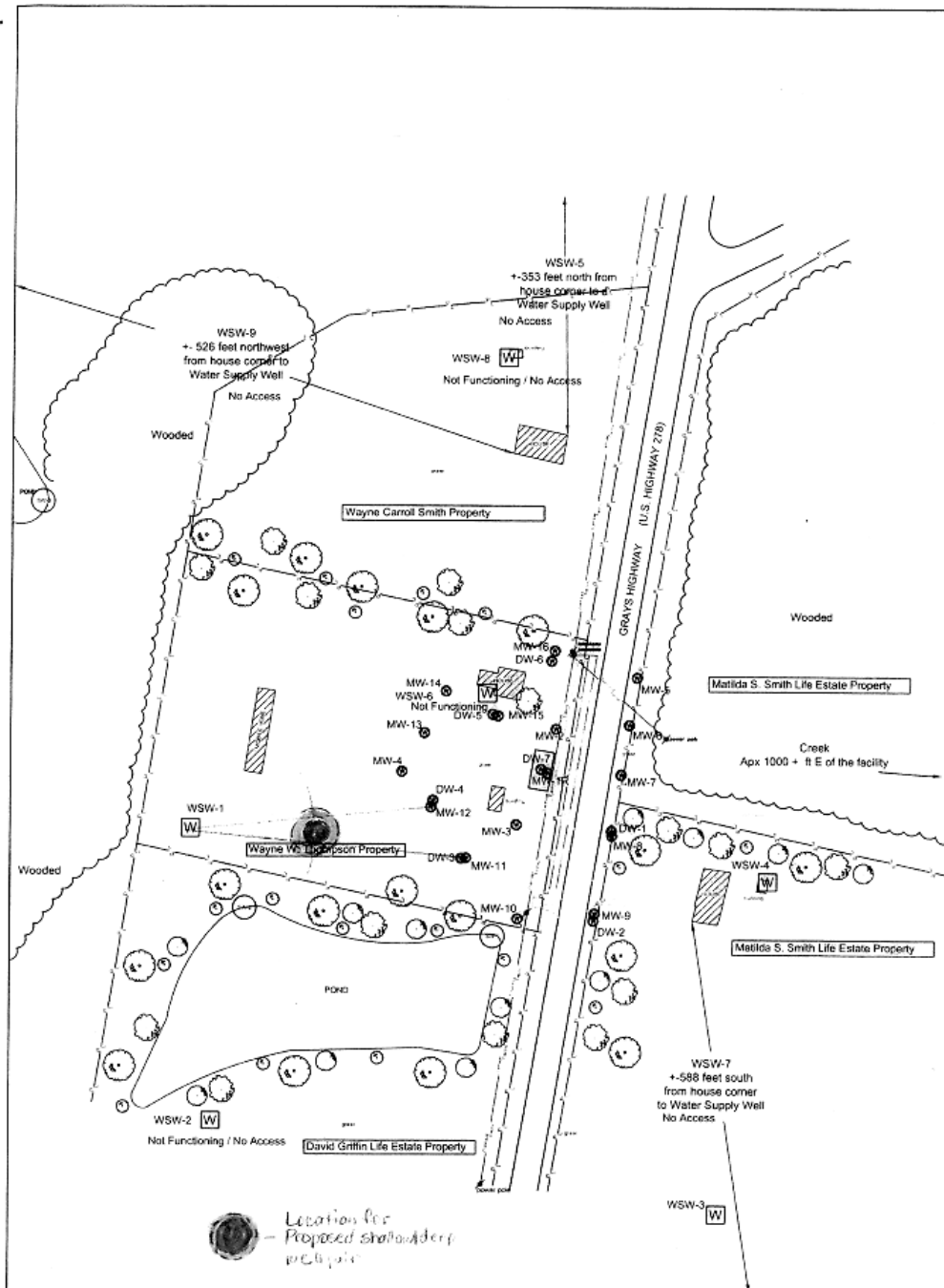


**CRAWFORD**  
**ENVIRONMENTAL**  
**SERVICES**  
 Division of C.F. Crawford, Inc.  
 104 Corporate Blvd.  
 West Columbia, SC 29189  
 803-708-0079 (office) 803-708-8137 (fax)

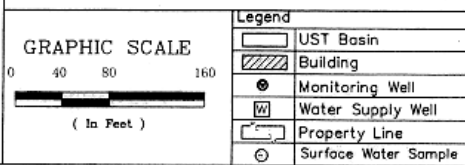
**GRAYS, SOUTH CAROLINA**  
 Source: DeLorme Topo USA 7.0  
 Scale: 1:12,000 Contour Interval: 10 Feet  
 Steady Simmons  
 16661 Grays Highway  
 Early Branch, SC 29916-08016  
 UST Permit: 18856

Project: Tier II Assessment  
 Client: SCDHEC  
 CES Job #: 15.102  
 Date: January 2012





Notes  
1. Diagram based RLS Survey, Aerial Photographs, GIS records and CES field notes



Legend	
	UST Basin
	Building
	Monitoring Well
	Water Supply Well
	Property Line
	Surface Water Sample

Figure 2  
Site Facility Base Map  
Steady Simmons  
16661 Grays Highway  
Early Branch, SC 29916

Project Mgr: JSR	Project No: 15.103
Drawn by: JSR	Date: 5/4/12
Checked by: HDO	Revision: 0
<p><b>CRAWFORD ENVIRONMENTAL SERVICES</b></p> <p>154 Corporate Blvd. Suite 412 West Columbia, SC 29001 803-705-0016 (ph) 803-706-4138 (fx)</p>	
<p>UST Permit No: 18856</p>	



Catherine E. Heigel, Director

*Promoting and protecting the health of the public and the environment*



BRYAN SHANE  
MIDLANDS ENVIRONMENTAL CONSULTANTS  
PO BOX 854  
LEXINGTON SC 29071-0854

Re: Notice to Proceed for Small Scope Site-Specific Work Plan  
Solicitation # 5400006561, PO# 4600450850  
Steady Simmons, 16661 Grays Highway, Early Branch, SC  
UST Permit # 18856; CA # 52322; MWA # UMW-26288  
Site-Specific Work Plan received May 9, 2016  
Jasper County

Dear Mr. Shane:

In accordance with the bid solicitation # IFB-5400006561 and the UST Management Division Quality Assurance Program Plan (QAPP) Revision 3.0, the Site-Specific Work Plan has been approved. If quality assurance problems occur, you must contact me within 24 hours by phone or e-mail and the final report must document the event(s), including quality assurance problems, and the action(s) taken.

**A report meeting the contract specifications of Section 3.10, 3.11, or 3.12; contractor verification checklist; and invoice are due sixty (60) days from the date of this letter.** A monitoring well approval is enclosed. The solicitation requires adherence to all applicable South Carolina certification requirements for laboratory analyses, well installation, and report preparation.

MECI will perform services at the site on behalf of the responsible party (RP); however, payment will be made from the SUPERB Account. The RP has no obligation for payment of this scope of work. Please coordinate access to the facility with the property owner. The Agency grants pre-approval for transportation of virgin petroleum impacted soil and groundwater from the referenced site to a permitted treatment facility. There can be no spillage or leakage in transport. All investigation-derived waste (IDW) must be properly contained and labeled prior to disposal. The SUPERB Account will not reimburse for transportation or treatment of soil and/or groundwater with concentrations below Risk Based Screening Levels.

On all correspondence, please reference permit # 18856. If you have any contract specific questions, please contact Minda Hornosky at (803) 898-7542 or via e-mail at [hornosms@dhec.sc.gov](mailto:hornosms@dhec.sc.gov).

Sincerely,

Minda Hornosky, Hydrogeologist  
Assessment Section  
UST Management Division, Bureau of Land & Waste Management

enc: Approved Cost Agreement (CA)  
Monitoring Well Approval (MWA)

cc: Mr. Wayne Thompson, 16657 Grays Highway, Early Branch, SC 29916-8016  
Minda Hornosky, Assessment Section, UST Management Division, BLWM (w/CA copy)  
Technical File (w/enc)





Catherine E. Heigel, Director

*Promoting and protecting the health of the public and the environment*

### Monitoring Well Approval Form

Approval is hereby granted to: Midlands Environmental Consultants, Inc.  
On behalf of: Steady Simmons  
UST Permit #: 18856  
Facility: Steady Simmons, 16661 Grays Highway,  
Early Branch, SC  
County: Jasper

This approval is for the installation of 1 shallow and 1 deep permanent groundwater monitoring wells to be installed in the approved locations following the South Carolina Well Standards, R.61-71, and all applicable guidance documents.

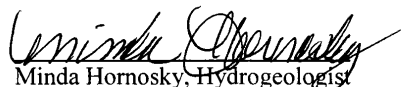
**Please note that R.61-71 requires the following:**

- All wells shall be drilled, constructed, and abandoned by a South Carolina certified well driller per R.61-71.D.1.
- All monitoring wells shall be labeled as required by R.61-71.H.2.c.
- A Water Well Record Form or other form provided or approved by the Agency shall be completed and submitted to the Agency within 30 days after well completion or abandonment unless another schedule has been approved by the Agency. The form should contain the “as-built” construction details and all other information required by R.61-71.H.1.f
- All analytical data and water levels obtained from each monitoring well shall be submitted to the Agency within 30 days of receipt of laboratory results unless another schedule has been approved by the Agency as required by R.61-71.H.1.d.
- If any of the information provided to the Agency changes, notification to Minda Hornosky (tel: 803 898-7542 or e-mail: hornosms@dhec.sc.gov) shall be provided a minimum of twenty-four (24) hours prior to well construction as required by R.61-71.H.1.a.
- All temporary monitoring wells shall be abandoned within 5 days of borehole completion using appropriate methods as required by R.61-71.H.4.c. All other wells shall be properly developed per R.61-71.H.2.d.
- Approval from The Agency is required prior to abandonment of all monitoring wells as required by R.61-71.H.1.a.

This approval is pursuant to the provisions of Section 44-55-40 of the 1976 South Carolina Code of Laws and R.61-71 of the South Carolina Well Standards and Regulations, dated April 26, 2002. A copy of this approval should be on the site during well installation.

**Date of Issuance: May 16, 2016**

**Approval #: UMW-26288**

  
Minda Hornosky, Hydrogeologist

Assessment Section  
UST Management Division  
Bureau of Land and Waste Management

**Approved Cost Agreement 52322**

Facility: 18856 STEADY SIMMONS

HORNOSMS

PO Number

<u>Task / Description</u>	<u>Categories</u>	<u>Item Description</u>	<u>Qty / Pct</u>	<u>Unit Price</u>	<u>Amount</u>
01 PLAN		A1 SITE SPECIFIC WORK PLAN	1 0000	\$150.000	150.00
04 MOB/DEMOB		A1 EQUIPMENT	1.0000	\$1,000 000	1,000 00
		B1 PERSONNEL	3.0000	\$325.000	975.00
09 WELL INSTALLATION		B1 WATER TABLE (DRILL RIG)	57 0000	\$20 870	1,189 59
16 SUBSEQUENT SURVEY		A1 SUBSEQUENT SURVEY	1.0000	\$300.000	300.00
17 DISPOSAL		AA WASTEWATER	100 0000	\$1 250	125 00
		C1 SOIL TREATMENT DISPOSAL	1 5000	\$50 000	75.00
<b>Total Amount</b>					<b>3,814 59</b>



AUG 03 2016



MR WAYNE THOMPSON  
16657 GRAYS HIGHWAY  
EARLY BRANCH SC 29916-8016

Re: Letter of Concern  
Steady Simmons, 16661 Grays Highway, Early Branch, SC  
UST Permit # 18856  
Release reported September 9, 2002  
Jasper County

Dear Mr. Thompson:

As you are aware, it was determined that the contamination was increasing in the monitoring wells located approximately 200 feet from your water supply well. The Division requested permission to install additional monitoring wells between your water-supply well and these monitoring wells to ensure that your drinking water meets the National Drinking Water Standards.

During our telephone conversation regarding your permission to install additional groundwater monitoring wells to investigate the migration of the groundwater contamination on your property, you requested additional information and a brief summary of the project and how it is being funded.

I have provided a historical data table of the groundwater data and maps and tables for each of the reports we received during the assessment and monitoring of this release.

We received a report on September 9, 2002 that documented petroleum chemicals of concern in the soil in the area of the former underground storage tank system. Our records document that two gasoline underground storage tank (USTs) owned and operated by Mr. Stedman Simmons in the 1960's were removed by you on July 16, 2002. Mr. Stedman Simmons was the party responsible, under state and federal law, to assess the extent and severity of the contamination. It was determined that Mr. Stedman Simmons was deceased and the release was orphaned so the state could perform the required environmental assessment and cleanup if necessary.

The release of petroleum products from the UST is qualified to receive funding from the State Underground Petroleum Environmental Response Bank (SUPERB) Account. This means that reasonable costs up to \$1,000,000 can be paid by the SUPERB Account for site rehabilitation actions associated with this release.

After completion of assessment activities, it was determined that the release did not pose a significant risk to human health or the environment and that the petroleum constituents would degrade over time by natural chemical and physical processes. A copy of the Public Notice for Monitored Natural Attenuation was sent to you on May 23, 2012. A copy of the letter and enclosures is attached.

Section 80(C) of the SUPERB Act provides that a subsequent purchaser of property from which an UST has been removed is not responsible for site rehabilitation activities other than abatement actions necessary to eliminate any imminent threat to human health or the environment. This exemption applies to the extent that the release is eligible for compensation from the SUPERB Account, provided that the person allows reasonable access to the property for rehabilitation activities, and does not or has not had any familial, financial, or other interest with the person who owned or operated the UST. This applies equally to subsequent lenders or to those who would acquire this property through foreclosure in the future.

The Division is not aware of any laws or regulations that prohibit the use or development of properties where a petroleum release has occurred. Any future work required by the Agency should not cause any damage to the building, disrupt deliveries, prevent access to customers, or block main access routes. Required activities associated with the petroleum release will be performed by a SC Certified Site Rehabilitation Contractor who maintains specific levels of insurance coverage for General and Professional Liability and Pollution/Property Damage as required by Section IV of the SUPERB Site Rehabilitation and Fund Access Regulations R. 61-98.

After consideration of these facts, I hope that you agree to the installation of these additional monitoring wells. Should you have additional questions, please contact me at (803) 898-7542. I can also be reached by email at [hornosms@dhec.sc.gov](mailto:hornosms@dhec.sc.gov).

Sincerely,



Minda Hornosky, Hydrogeologist  
Assessment Section, Underground Storage Tank Management Division  
Bureau of Land and Waste Management

enc: Public Notice and Attachments  
Historical Data Table  
Maps with Data Tables

cc: Midlands Environmental Consultants, Inc., PO Box 854, Lexington, SC 29071-0854  
Technical File

Document Receipt Information

Hard Copy       CD       Email

Date Received 11-15-16

Permit Number 18856

Project Manager Minda Hornosky

Name of Contractor MECI

UST Certification Number \_\_\_\_\_

Docket Number 24466

Scanned \_\_\_\_\_

MW Installation

---

# MONITORING WELL INSTALLATION REPORT

Steady Simmons  
16661 Grays Highway  
Early Branch, South Carolina  
SCDHEC SITE ID 18856  
CA # 52322

*Prepared By:*



231 Dooley Road, Lexington, SC 29073  
(803) 808-2043 fax: 808-2048

November 15, 2016

MECI Project No. 16-5552

---



November 15, 2016

Ms. Minda Hornosky, Hydrogeologist  
Assessment Section  
Assessment and Corrective Action Division  
Underground Storage Tank Program  
Bureau of Land & Waste Management  
South Carolina Department of Health and  
Environmental Control  
2600 Bull Street  
Columbia, South Carolina 29201

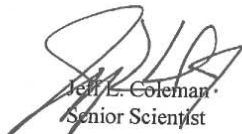
Subject: Monitoring Well Installation Report  
Steady Simmons  
16661 Grays Highway  
Early Branch, South Carolina  
SCDHEC Site ID# 18856, CA # 52332  
MECI Project Number 16-5552  
Certified Site Rehabilitation Contractor UCC-0009

Dear Ms. Hornosky,

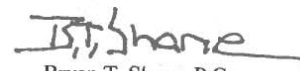
Midlands Environmental Consultants Inc. (MECI) is pleased to submit the attached Monitoring Well Installation Report for the referenced site. This report describes assessment activities conducted at the site and results of those activities in general accordance with South Carolina Department of Health and Environmental Control (SCDHEC) guidelines, including adherence to the UST Division Programmatic Quality Assurance Program Plan (QAPP).

Midlands Environmental appreciates the opportunity to offer our professional environmental services to you on this project. Please feel free to contact us at 803-808-2043 if you have any immediate questions or comments.

Sincerely,  
**Midlands Environmental Consultants, Inc.**



Jeff L. Coleman  
Senior Scientist



Bryan T. Shane, P.G.  
Principal Geologist

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**NOTE: ITEMS LISTED WITH AN \*\* BESIDE IT WERE NOT NEEDED AS A PART OF THIS SCOPE OF WORK**

## 1.0 INTRODUCTION

### A. Owner/Operator Information

Facility Name: Steady Simmons UST Permit #: 18856  
Facility Address: 16661 Grays Highway, Early Branch, SC 29916  
Name: Orphan (Steady Simmons)  
Address: N/A  
Telephone #: N/A

### B. Property Owner Information

Name: Mr. Wayne Thompson  
Tax Map #: Jasper County Tax Map# 052-00-05-027  
Address: 16657 Grays Highway, Early Branch, SC 29916  
Telephone #: (803) 398-7718

### C. Contractor Information

Name: Midlands Environmental Consultants, Inc.  
Certification #: 9  
Address: P. O. Box 854, Lexington, SC 29071  
Telephone #: (803) 808-2043

### D. SCDHEC Certified Well Driller

Name: William Walker Environmental Services, LLC.  
Driller: William Walker  
Certification #: B 02042  
Address: 1317 Hummingbird Drive, West Columbia, SC 29169  
Telephone #: (803) 351-7936

### E. SCDHEC Certified Laboratory

Name: N/A  
Certification #: N/A  
Address: N/A  
Telephone #: N/A

## 1.1 PROJECT INFORMATION

The subject site (Steady Simmons) is located at 16661 Grays Highway, Early Branch, Jasper County, South Carolina. The subject site formerly maintained one 1,000 gallon gasoline underground storage tank (UST), and one 550 gallon gasoline UST. The subject tanks were abandoned by removal from the ground in July of 2002. A release of petroleum product was reported to The South Carolina Department of Health and Environmental Control (SCDHEC) in September of 2002 and subsequently confirmed in October of 2002. The site is currently rated a Class 2BB.

The above project information is based on MECI field notes and SCDHEC files.

## 2.0 SURROUNDING PROPERTY USAGE

The site is located outside the town limits of Early Branch, Jasper County, South Carolina. It is currently occupied by an abandoned store and a residential building. The site is bordered by Grays Highway (US Highway 278) to the East, beyond which are rural residential properties and planted pines. North and south of the site are residential properties. West of the site are residential and agricultural properties.

Potential receptors surrounding the site include; nine water supply wells and two surface water locales. The following matrix contains well status, owner(s), and tax map identification numbers:

ID#	Well Owner	Jasper County Tax Map Number:	Address:	Well Status
WSW-1	Wayne Thompson	052-00-05-027	16657 Grays Highway	Unknown
WSW-2	Linda S. Labiberte	052-00-05-026	16589 Grays Highway	Unknown
WSW-3	William Phillips	052-00-10-002	16586 Grays Highway	Unknown
WSW-4	Matilda S. Smith	052-00-10-001	16640 Grays Highway	Unknown
WSW-5	Clyde & Tina Smith	052-00-05-029	16743 Grays Highway	Unknown
WSW-6	Wayne Thompson	052-00-05-027	16657 Grays Highway	Unknown
WSW-7	William & Mamie Phillips	052-00-10-026	16508 Grays Highway	Unknown
WSW-8	Wayne Carroll Smith	052-00-05-028	16713 Grays Highway	Unknown
WSW-9	Clyde & Tina Smith	052-00-05-029	16743 Grays Highway	Unknown
Pond	Linda S. Labiberte	052-00-05-026	16589 Grays Highway (SW-1 & SW-2)	Unknown
Pond	Clyde & Tina Smith	052-00-05-029	16743 Grays Highway (SW-3)	Unknown

## 3.0 AREA GEOLOGY AND HYDROGEOLOGY

The project site is located in the Atlantic Coastal Plain Physiographic Province. The mean elevation of the property as depicted on the local USGS quadrangle (Grays, SC) appears to be approximately 70 feet above sea level. The soils in this province are generally interbedded silts, sands and clays that have been deposited during successive advances and retreats of the ocean over the past several million years. This interbedding can cause perched water and makes hydrogeological interpretation difficult.

In this geologic setting, the uppermost aquifer is the surficial aquifer of sands with lenses and layers of clays and silts. Water occupies the interstices between the formation particles and is in hydrostatic balance with the atmosphere at the water table surface.

Local precipitation is the source of freshwater recharge to the Coastal Plain formations. Groundwater recharge varies considerably over the region and is attributed to the differences in precipitation and to the variability in the infiltration rates.

Coastal Plain formations generally dip toward the Atlantic Ocean. Consequently, regional groundwater movement is to the southeast. On a regional scale, hydraulic gradients are relatively low.

Locally, in the surficial aquifer, groundwater discharges into streams, lakes or springs where the groundwater table intersects lows occupied by these water bodies. The apparent direction (based on

hydraulic gradient determined during previous assessment activities) of groundwater flow is in a westerly direction, towards drainage features associated with the Cypress Branch.

### 3.1 LOCAL SUBSURFACE CONDITIONS

Coastal plain sediments were encountered during drilling activities conducted at the site. The soils encountered in our borings generally consisted silty fine grained sands to termination depth of 40.0' below ground surface (BGS). Test Boring Records, which depict the materials encountered in each boring, are located in Appendix E.

On November 7, 2016, the stabilized groundwater level was measured in the newly installed monitoring wells. Depth to groundwater was measured to be 3.20 below the top of casing in MW-17 and 11.30 feet below the top of casing in DW-8. The groundwater measurements are summarized in tabular form in Table 2 and on Figure 5. Groundwater levels may fluctuate several feet with seasonal and rainfall variations and with change in the water level of adjacent drainage features. Normally, the highest groundwater levels occur in late winter and spring. The lowest levels occur in late summer and fall.

The above descriptions provide a general summary of the subsurface conditions encountered. The attached Test Boring Records (Appendix E) contain detailed information recorded at each new monitoring well location. The Test Boring Records represent our interpretation of the field logs based on examination of the field samples. The lines designating the interfaces between various strata represent approximate boundaries, and the transition between strata may be gradational.

### 4.0 FIELD EXPLORATION

Field exploration conducted at the site included:

- construction of two (2) groundwater monitoring wells; and,
- a subsequent survey of subject site.

The monitoring well locations were selected based on SCDHEC instruction, property access, existing site conditions, and drilling accessibility.

### 4.1 MONITORING WELL INSTALLATION

On November 1-2, 2016, one single cased, watertable bracketing monitoring well and one double cased “deep” monitoring well was installed at the subject site to better define the contaminant plume in the direction of WSW-1. These wells were installed by W. Walker Environmental Services, LLC. of West Columbia, South Carolina (S.C. Drilling Certification: Mr. William Walker #B 02042), utilizing a truck-mounted drilling rig.

The watertable bracketing monitoring wells was installed employing 7.5-inch outer diameter hollow stem augers to construct the borehole. The double cased monitoring well was constructed with a 6-inch ID schedule 40 PVC outer casing installed to an predetermined depth below ground surface. The casing was pressure grouted to the ground surface with a bentonite-cement grout and allowed to cure for at 24 hours. After curing, a 4.0-inch outside diameter roller cone bit was utilized to advance the borehole through the outer casing to the termination depth utilizing mud-rotary techniques.

The following table presents new well installation details:

Well Number	Single Cased	Double Cased	Screened Interval	Total Depth (ft)
MW-17	X		4.0-14.0	13.98'
DW-8		X	35.0-40.0	39.58'

The soils encountered during drilling activities generally consisted of silty fine grained sands of the Coastal Plain Province. Representative portions of soil samples were screened with a Photo Ionization Detector (PID) and classified by MECI personnel. Test boring records showing soil descriptions and screening result are attached in Appendix E.

On November 7, 2016, the well was developed by pumping until it was determined to be functioning properly and turbidity was reduced. The well was developed utilizing a Mini-monsoon well pump. The drum of purge water was treated by MECI personnel using a granular activated carbon drum. A total of 50.0 gallons of development water was disposed of in this manner. A disposal manifest for the treated purge water is presented in Appendix G.

Drill cuttings were containerized and transported to Waste Management/Richland County Landfill, Elgin, SC on November 8, 2016 by MECI personnel. A total of 1.26 tons was disposed of in this manner. A disposal manifest for the treated purge water is presented in Appendix G.

#### 4.2 SITE SURVEY

Following the well installation, a subsequent survey was conducted by MECI personnel, utilizing a fiberglass rod, level, and tape to determine the horizontal and vertical position of the newly installed monitoring wells. A TOC elevation of 67.20 for DW-3 and a TOC elevation of 70.02 for DW-5 were used as benchmarks for surveying in the newly installed recovery well. Elevations were based on site datum obtained from SCDHEC provided files. See Table 2 and Figure 5 for potentiometric data.

The following table presents site survey results:

Well Number	Top of Casing (TOC) Elevation
MW-17	68.16'
DW-8	67.83'

#### 5.0 QUALIFICATIONS OF REPORT

The activities and evaluative approaches used in this assessment are consistent with those normally employed in hydrogeological assessment and waste management projects of this type. Our evaluation of site conditions has been based on our understanding of the site, project information provided to us, and data obtained in our exploration. The general subsurface conditions utilized in our evaluation have been based on interpretation of subsurface data between borings. Contents of this report are intended for the sole use of SCDHEC under mutually agreed upon terms and conditions. If other parties wish to rely on this report please contact MECI prior to their use of this information so that a mutual understanding and agreement of the terms and conditions of our services can be established.

-oOo-

**TABLES**

**TABLE 2  
POTENTIOMETRIC DATA  
NOVEMBER 7, 2016, 2016 GAUGING EVENT  
STEADY SIMMONS  
EARLY BRANCH, SOUTH CAROLINA  
MECI PROJECT NUMBER 16-5552  
SCDHEC SITE ID NUMBER 18856**

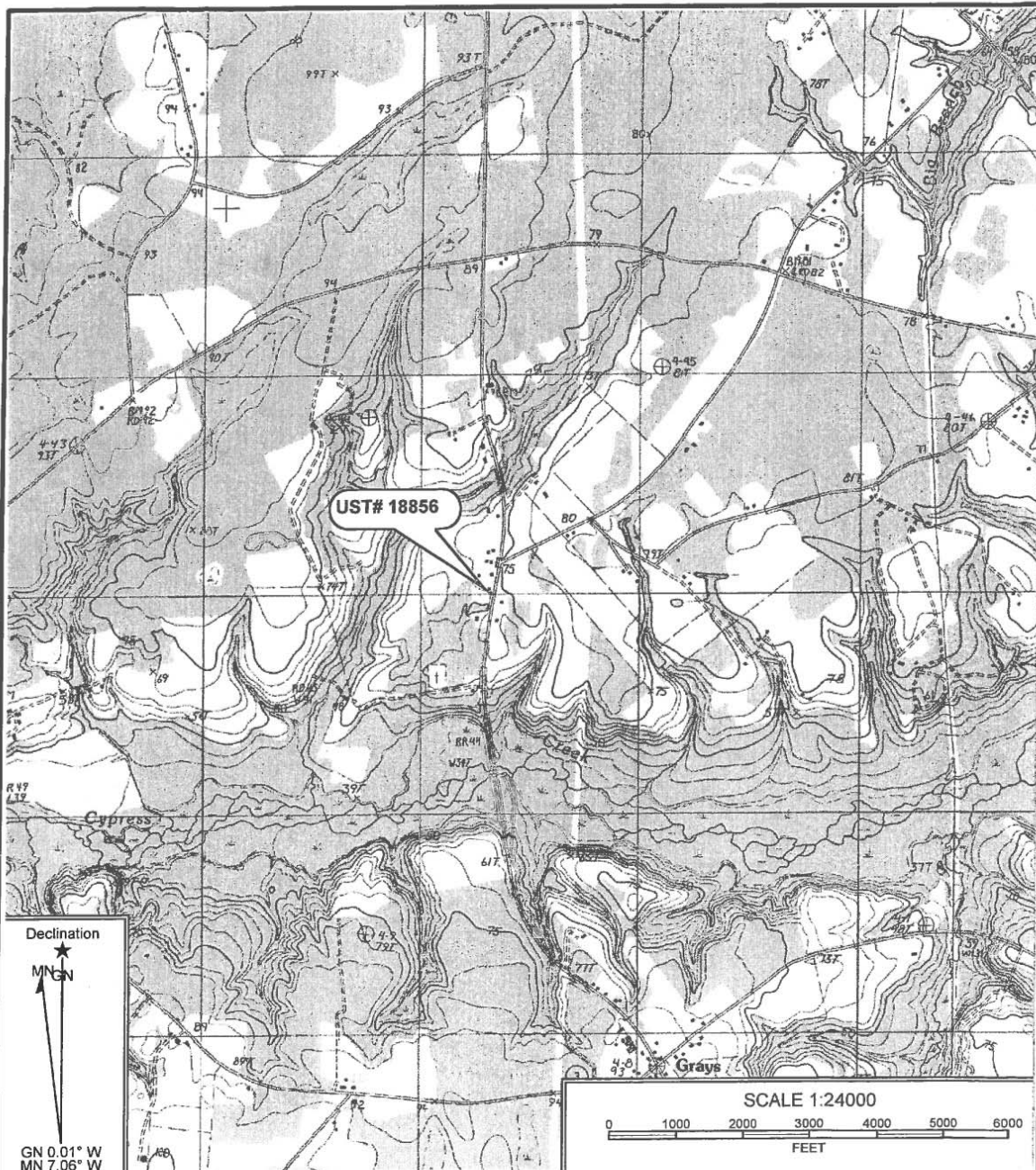
Well Number	Gauge Date	Screened Interval (ft BGS)	Depth to Water (ft)	Well-head Elevation	Groundwater Elevation
MW-1R	11/7/2016	7-17	NM	69.69	NM
MW-2	11/7/2016	7-17	NM	70.10	NM
MW-3	11/7/2016	7-17	NM	68.59	NM
MW-4	11/7/2016	7-17	NM	67.95	NM
MW-5	11/7/2016	5-15	NM	71.78	NM
MW-6	11/7/2016	5-15	NM	71.47	NM
MW-7	11/7/2016	5-15	NM	71.27	NM
MW-8	11/7/2016	5-15	NM	70.90	NM
MW-9	11/7/2016	5-15	NM	70.70	NM
MW-10	11/7/2016	5-15	NM	66.65	NM
MW-11	11/7/2016	5-15	NM	67.16	NM
MW-12	11/7/2016	5-15	NM	67.18	NM
MW-13	11/7/2016	5-15	NM	68.50	NM
MW-14	11/7/2016	5-15	NM	70.14	NM
MW-15	11/7/2016	10-20	NM	70.01	NM
MW-16	11/7/2016	10-20	NM	71.65	NM
MW-17	11/7/2016	4-14	3.20	68.16	64.96
DW-1	11/7/2016	35-40	NM	70.95	NM
DW-2	11/7/2016	35-40	NM	70.89	NM
DW-3	11/7/2016	35-40	NM	67.20	NM
DW-4	11/7/2016	33-38	NM	67.51	NM
DW-5	11/7/2016	33-38	NM	70.02	NM
DW-6	11/7/2016	31-36	NM	71.41	NM
DW-7	11/7/2016	31-36	NM	69.82	NM
DW-8	11/7/2016	35-40	11.30	67.83	56.53

Notes:

1. Groundwater depths were measured from the top of the PVC riser pipe.
2. Site datum based on assumed spot elevation.
3. NM = Not measured

**FIGURES**





Declination  
 ★  
 MN  
 GN  
 GN 0.01° W  
 MN 7.06° W

Reference: Grays, South Carolina  
 USGS 7.5 Min. Quad  
 Countour Interval - 5 Feet

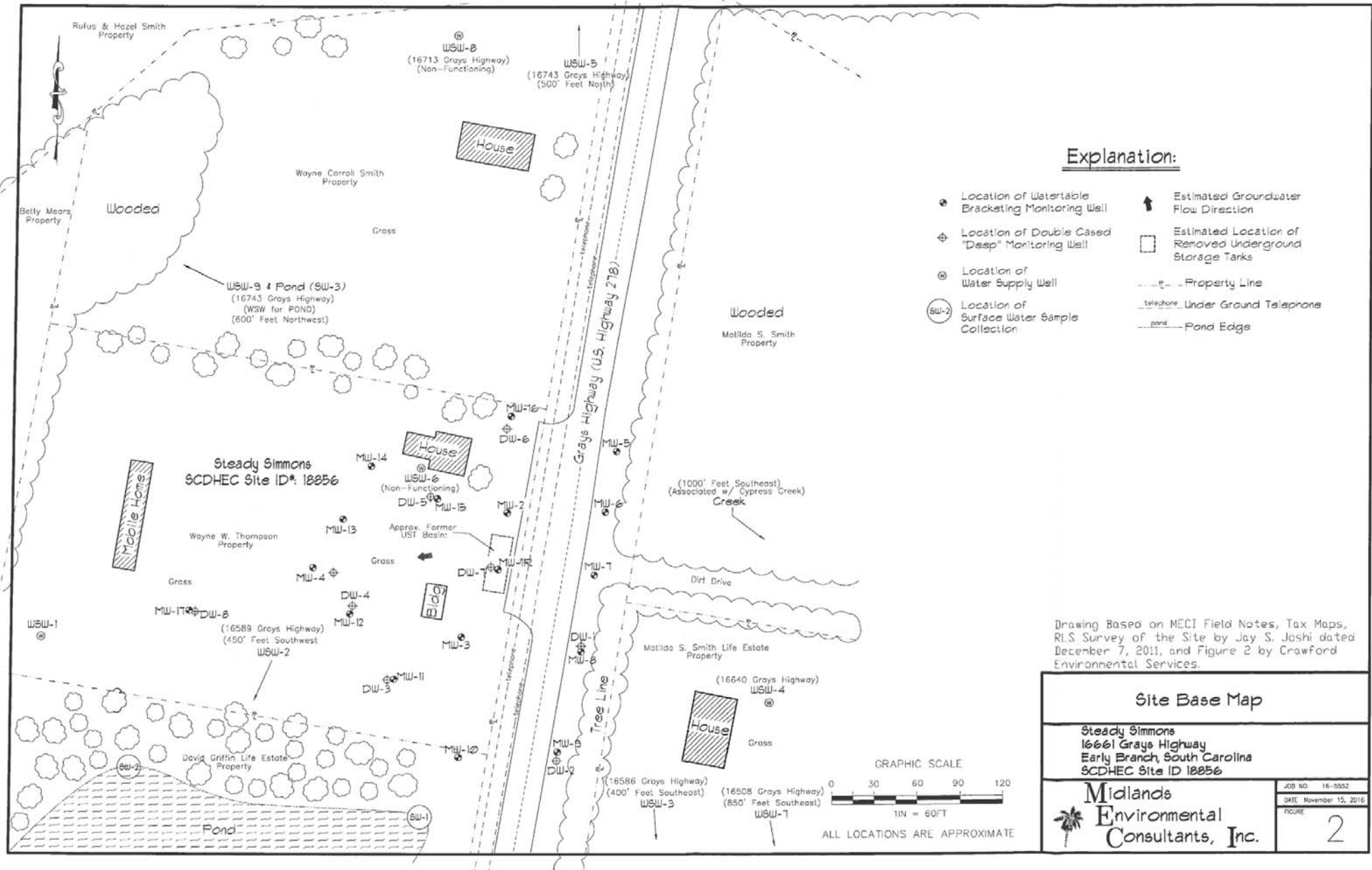
Midlands  
 Environmental  
 Consultants, Inc.

Site Location

Steady Simmons  
 16661 Grays Highway, Early Branch, South Carolina  
 SCDHEC Site ID# 18856

Figure 1

MEC1 16-5552



Rufus & Hazel Smith Property

WSW-8  
(16713 Grays Highway)  
(Non-Functioning)

WSW-5  
(16743 Grays Highway)  
(500' Feet North)

Wayne Carroll Smith Property

House

Billy Meers Property

Wooded

Gross

WSW-9 & Pond (SW-3)  
(16743 Grays Highway)  
(WSW for POND)  
(600' Feet Northwest)

SW-2  
Location of Surface Water Sample Collection

Wooded  
Matilda S. Smith Property

Steady Simmons  
SCDHEC Site ID# 18856

MW-14  
WSW-6  
(Non-Functioning)  
DW-5

(1000' Feet Southeast)  
(Associated w/ Cypress Creek)  
Creek

Wayne W. Thompson Property

Approx. Former UST Basin:

Dirt Drive

WSW-1

MW-17  
DW-8  
(16589 Grays Highway)  
(450' Feet Southwest)  
WSW-2

Matilda S. Smith Life Estate Property

(16640 Grays Highway)  
WSW-4

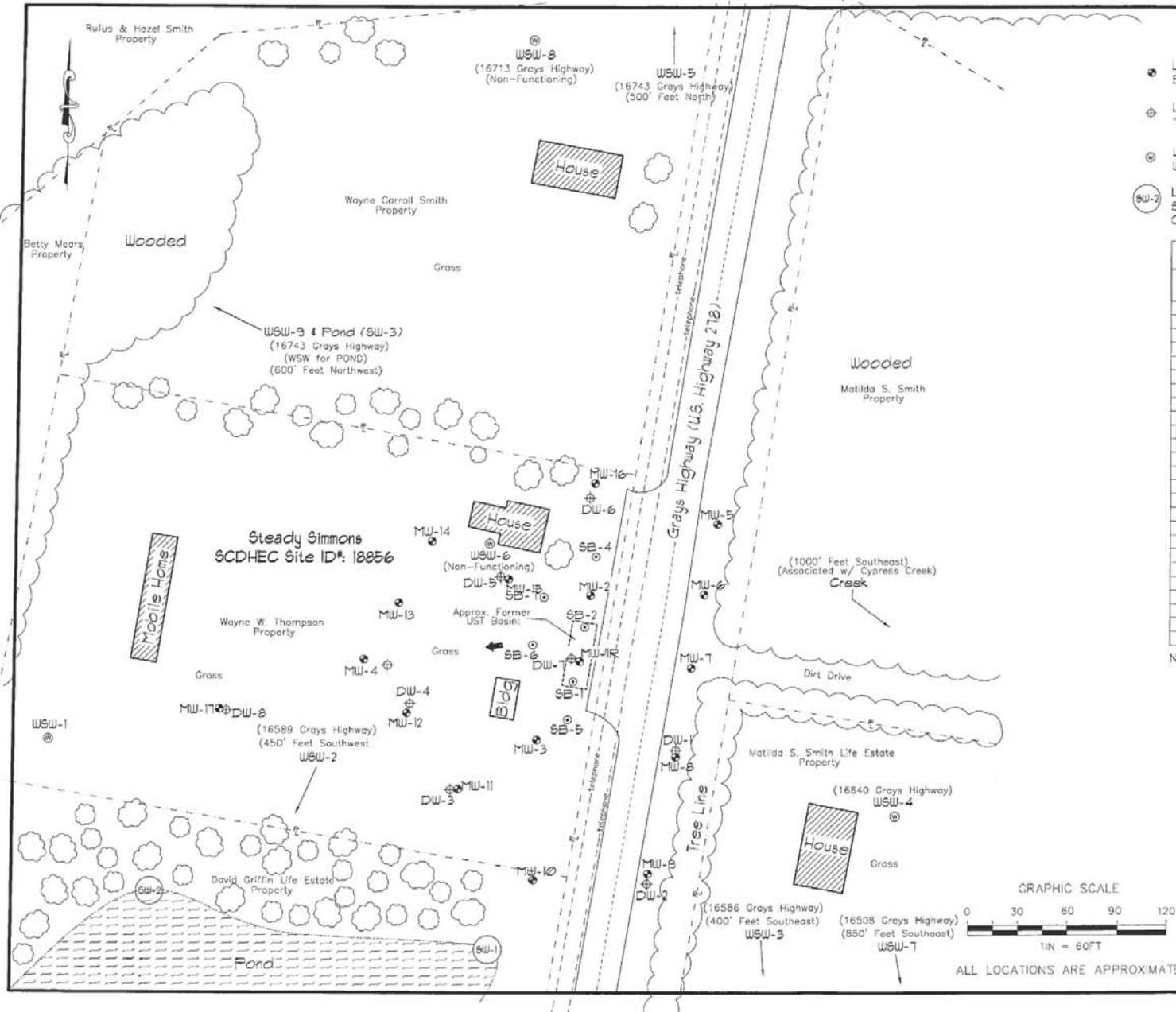
David Griffin Life Estate Property

Pond

(16586 Grays Highway)  
(400' Feet Southeast)  
WSW-3

(16508 Grays Highway)  
(850' Feet Southeast)  
WSW-7

ALL LOCATIONS ARE APPROXIMATE



**Explanation:**

- ⊗ Location of Water Table Bracketing Monitoring Well
- ⊕ Location of Double Cased "Deep" Monitoring Well
- ⊙ Location of Water Supply Well
- ⊙ (SW-2) Location of Surface Water Sample Collection
- ↑ Estimated Groundwater Flow Direction
- Estimated Location of Removed Underground Storage Tanks
- - - Property Line
- Under Ground Telephone
- Pond Edge

Potentiometric Data				
Well #	Screened Interval(ft.)	Depth to Water(ft.)	Well Head Elevation	Groundwater Elevation
MW-1R	7-17	NM	69.69	NM
MW-2	7-17	NM	70.10	NM
MW-3	7-17	NM	68.59	NM
MW-4	7-17	NM	67.95	NM
MW-5	5-15	NM	71.78	NM
MW-6	5-15	NM	71.47	NM
MW-7	5-15	NM	71.27	NM
MW-8	5-15	NM	70.90	NM
MW-9	5-15	NM	70.70	NM
MW-10	5-15	NM	86.65	NM
MW-11	5-15	NM	67.16	NM
MW-12	5-15	NM	67.18	NM
MW-13	5-15	NM	68.50	NM
MW-14	5-15	NM	70.14	NM
MW-15	10-20	NM	70.01	NM
MW-16	10-20	NM	71.65	NM
MW-17	4-14	3.20	68.16	64.96
DW-1	35-40	NM	70.95	NM
DW-2	35-40	NM	70.89	NM
DW-3	35-40	NM	67.20	NM
DW-4	33-38	NM	67.51	NM
DW-5	33-38	NM	70.02	NM
DW-6	31-36	NM	71.41	NM
DW-7	31-36	NM	69.82	NM
DW-8	35-40	11.30	67.83	56.53

Notes: Depth to groundwater measured on March 10, 2016.

Site Datum Based on Assumed Spot Elevation.

NM = Not Measured

Drawing Based on MECI Field Notes, Tax Maps, RLS Survey of the Site by Jay S. Joshi dated December 7, 2011, and Figure 2 by Crawford Environmental Services.

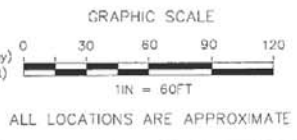
**Potentiometric Data Site Map**

Steady Simmons  
16661 Grays Highway  
Early Branch, South Carolina  
SCDHEC Site ID 18856

**Midlands  
Environmental  
Consultants, Inc.**

JOB NO. 16-5052  
DATE November 15, 2016  
FIGURE

5



**APPENDIX A:**  
**SITE SURVEY**  
*(Not Applicable)*

**APPENDIX B:**

**SAMPLING LOGS, LABORATORY DATA SHEETS, & CHAIN-OF-CUSTODY FORMS**  
*(Not Applicable)*

**APPENDIX C:**

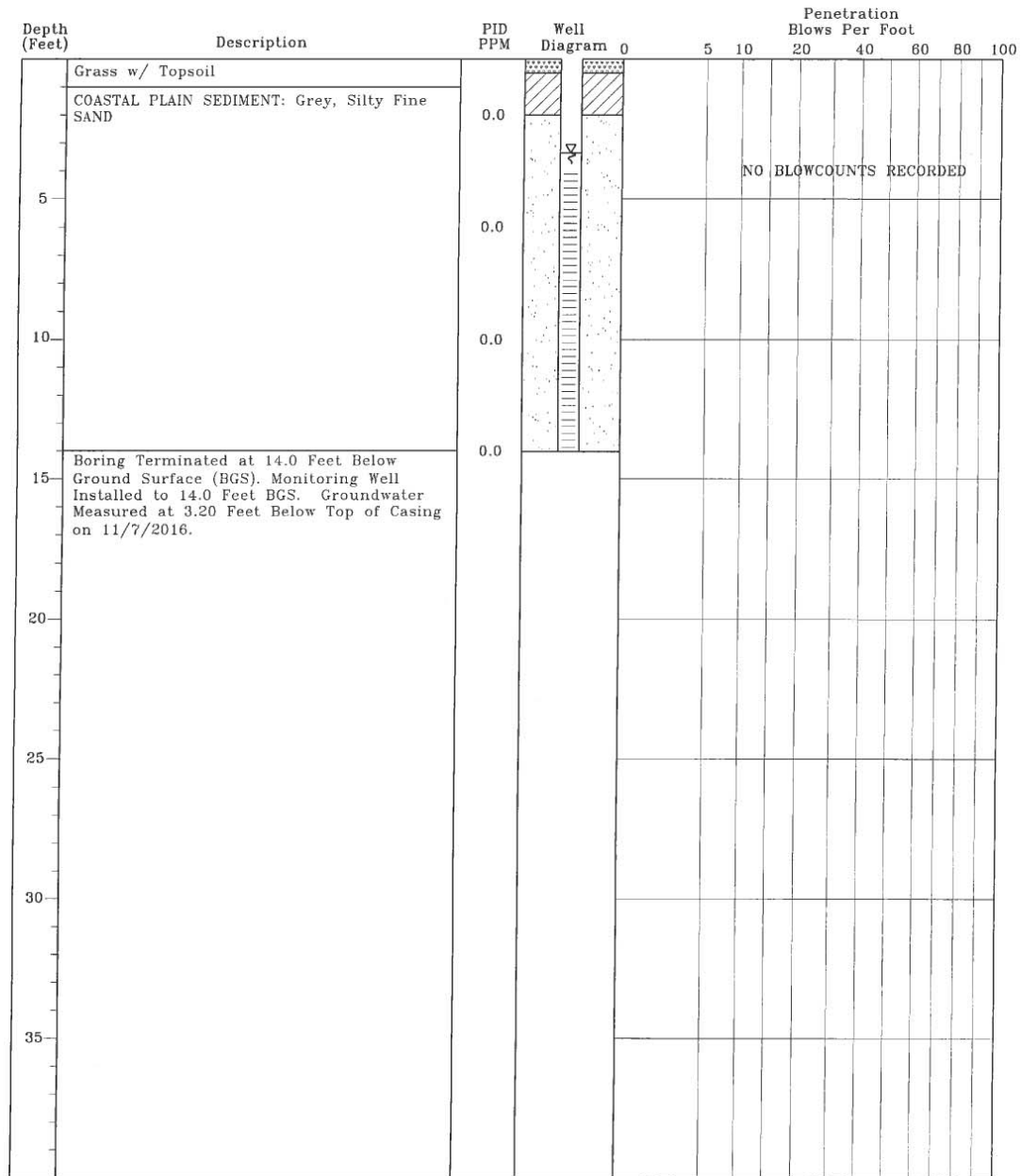
**TAX MAP**

***(Not Applicable)***

**APPENDIX D:**  
**SOIL BORING/FIELD SCREENING LOGS & 1903 FORMS**  
*(Not Applicable)*

**APPENDIX E:**  
**WELL COMPLETION LOGS & 1903 FORMS**





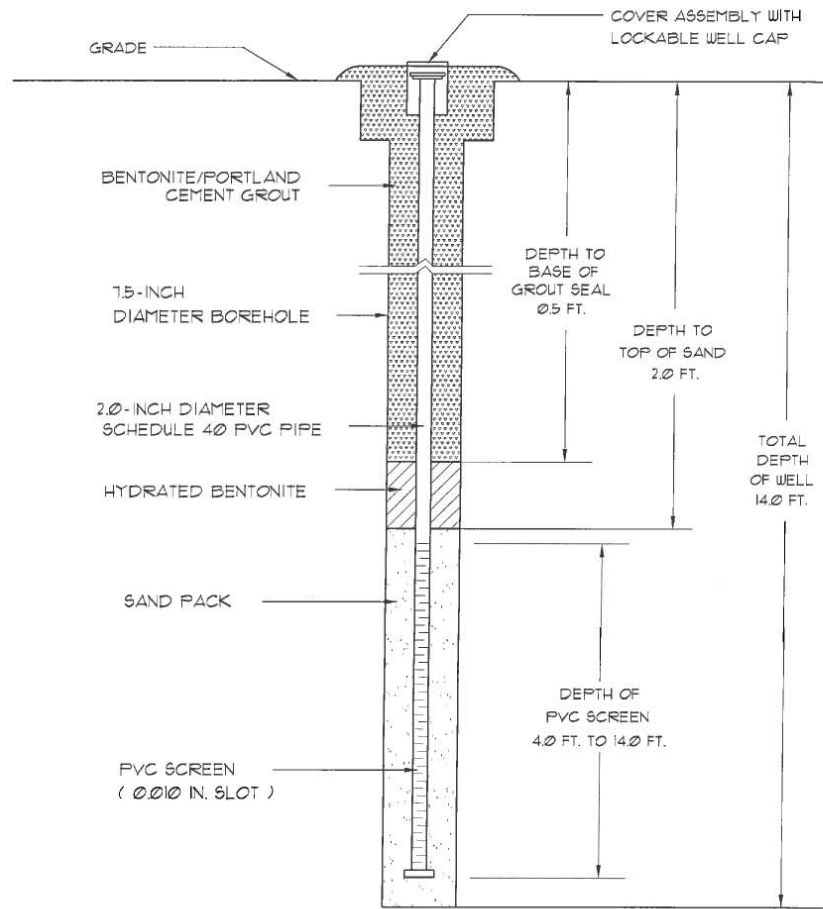
TEST BORING RECORD  
 Steady Simmons  
 Early Branch, South Carolina  
 SCDHEC Site ID# 18856  
 MECI Project Number 16-5552

Boring Number:	MW-17 (18856)
Date Drilled:	11/1/2016
Drilled By:	W. Walker Environmental
Logged By:	B. Garner

Prepared By:  
 Midlands  
 Environmental  
 Consultants, Inc.  
 231 Dooley Road  
 Lexington, South Carolina 29073  
 (803) 828-2043 Fax: 803-7048

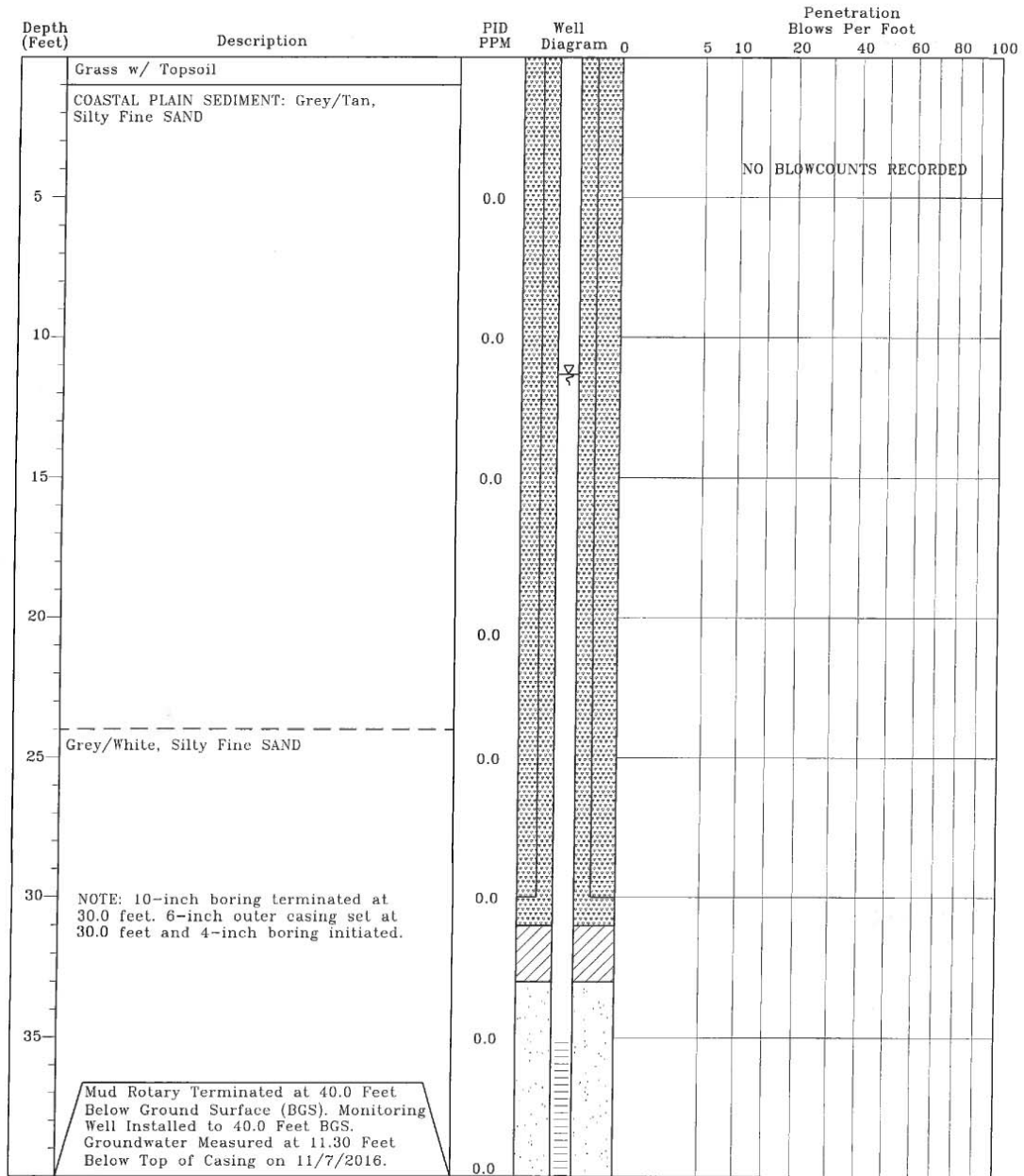
# MONITORING WELL INSTALLATION RECORD

Steady Simmons  
 Early Branch, South Carolina  
 SCDHEC Site ID# 18856  
 MECI Project Number 16-5552



Well Number:	MW-17 (18856)
Date Drilled:	11/1/2016
Drilled By:	W. Walker Environmental
Driller: W. Walker	S.C. I.D.#: B 02042
Logged By:	B. Garner

Prepared By:  
**Midlands Environmental Consultants, Inc.**  
 231 Doolley Road  
 Lexington, South Carolina 29073  
 (803) 808-2043 Fax: 808-2042



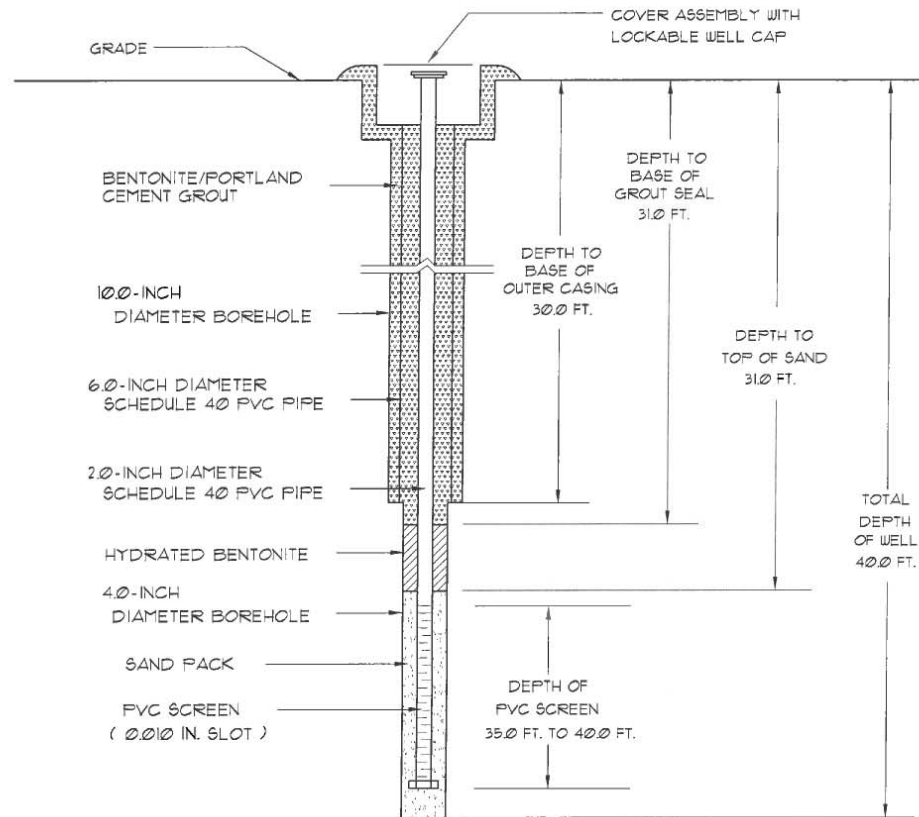
TEST BORING RECORD  
 Steady Simmons  
 Early Branch, South Carolina  
 SCDHEC Site ID# 18856  
 MECI Project Number 16-5552

Boring Number:	DW-8 (18856)
Date Drilled:	11/2/2016
Drilled By:	W. Walker Environmental
Logged By:	B. Garner

Prepared By:  
 Midlands  
 Environmental  
 Consultants, Inc.  
 231 Dooley Road  
 Lexington, South Carolina 29073  
 (803) 808-2043 Fax: 808-2048

# MONITORING WELL INSTALLATION RECORD

Steady Simmons  
 Early Branch, South Carolina  
 SCDHEC Site ID# 18856  
 MECI Project Number 16-5552



Well Number:	DW-8 (11856)
Date Drilled:	11/2/2016
Drilled By:	W. Walker Environmental
Driller:	W. Walker S.C. I.D. #: B 02402
Logged By:	B. Garner

Prepared By:  
**Midlands Environmental Consultants, Inc.**  
 231 Dooley Road  
 Lexington, South Carolina 29073  
 (803) 208-1243 Fax: 803-2248





**Well Development Data Verification Form**  
**Underground Storage Tank Management Division**

Facility Name: Steady Simmons Site ID#: 18856 Date: 11/7/2016  
 Drilling Company: William Walker Environmental Driller: William Walker  
 Field Personnel: William Walker Driller Certification Number: B 02042  
 Weather Conditions: Clear Temp. (°F): 70

**Well Development Method**

Surge Block: \_\_\_\_\_ Submersible Pump: X Air Lifting: \_\_\_\_\_

\*\*Bailing can be combined with any of the above methods, but not utilized alone for development

**Quality Assurance**

pH Meter:	Conductivity Meter:	Temperature Meter:	Turbidity Meter:
Serial no. <u>15E101481</u>	Serial no. <u>15E101481</u>	Serial no. <u>14H103098</u>	Serial No. <u>201301174</u>
pH=4.0 <u>X</u>	Standard <u>X</u>		NTU 0.0 <u>X</u>
pH=7.0 <u>X</u>			NTU 1.0 <u>X</u>
pH=10.0 <u>X</u>			NTU10.0 <u>X</u>

**Drilling Method**

Hollow Stem Augers: X Solid Flight Augers: \_\_\_\_\_ Direct Push: \_\_\_\_\_  
 Air Rotary: \_\_\_\_\_ Mud Rotary: \_\_\_\_\_ Sonic: \_\_\_\_\_

Monitoring Well ID#: MW-17 Well Casing Diameter (in): 2 Borehole Diameter (in): 7.5  
 Depth to Ground Water (DGW): 3.20 ft. Screen Length (ft): 10 Slot Size (in): 0.010  
 Total Well Depth (TWD): 13.98 ft. Screen Interval: 4.0 ft. to 14.0 ft.  
 Length of Water Column (TWD-DGW): 10.78 ft. Type of Drilling Fluid Used: N/A  
 Total Gallons of Water Removed: 20.00 gals. Drilling Fluids Recovered: N/A

Time:	10:45	10:47	10:52	11:00	11:07			
pH(s.u)*:	7.02	6.95	6.81	6.80	6.79			
Specific Conductivity (mmhos/cm):	110.2	115.3	112.9	107.2	105.3			
Water Temperature (°C)*:	20.7	23.2	23.7	24.1	24.0			
Turbidity (NTU)*:	227.9	120.6	29.4	10.2	9.0			
Physical Characteristics (color/odor):	Cloudy/ No Odor	Cloudy/ No Odor	Clear/ No Odor	Clear/ No Odor	Clear/ No Odor			
Depth to Water (ft from TOC):	3.20	4.56	5.46	3.58	4.65			
Cumulative Gallons Removed:	0.00	5.00	10.00	15.00	20.00			

\*Development is completed once groundwater turbidity is ≤10 NTU and all parameters are ± 10%

**Detailed Description of Well Development Process:**

The monitoring well was developed using a Mini-Monsoon well pump. The submersible pump was placed inside the water column and operated until all water was evacuated. The well was allowed to recharge before development continued. Development was complete after 20.0 gallons were removed.

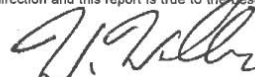
Driller Signature: 

Date: 11/15/2016



### Water Well Record Bureau of Water

2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

<b>1. WELL OWNER INFORMATION:</b> Name: <b>SCDHEC</b> (last) (first) Address: <b>2600 Bull Street</b> City: <b>Columbia</b> State: <b>SC</b> Zip: <b>29201-1708</b> Telephone: Work: <b>(803) 898-2544</b> Home:		<b>7. PERMIT NUMBER:</b> UMW-26288																																																	
<b>2. LOCATION OF WELL: COUNTY:</b> <b>Hampton</b> Name: <b>Steady Simmons</b> Street Address: <b>1661 Grays Highway</b> City: <b>Early Branch</b> Zip: <b>29916-8016</b> Latitude: Longitude:		<b>8. USE:</b> <input type="checkbox"/> Residential <input type="checkbox"/> Public Supply <input type="checkbox"/> Process <input type="checkbox"/> Irrigation <input type="checkbox"/> Air Conditioning <input type="checkbox"/> Emergency <input type="checkbox"/> Test Well <input checked="" type="checkbox"/> Monitor Well <input type="checkbox"/> Replacement																																																	
<b>3. PUBLIC SYSTEM NAME:</b> <b>18856</b> <b>PUBLIC SYSTEM NUMBER:</b> <b>DW-8</b>		<b>9. WELL DEPTH (completed)</b> Date Started: <b>11/1/2016</b> <b>40.0</b> ft. Date Completed: <b>11/1/2016</b>																																																	
<b>4. ABANDONMENT:</b> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Give Details Below Grouted Depth: from _____ ft. to _____ ft.		<b>10. CASING:</b> <input checked="" type="checkbox"/> Threaded <input type="checkbox"/> Welded Diam.: <b>2 Inch</b> Type: <input checked="" type="checkbox"/> PVC <input type="checkbox"/> Galvanized <input type="checkbox"/> Steel <input type="checkbox"/> Other <b>6.0</b> in. to <b>30.0</b> ft. depth <b>2.0</b> in. to <b>40.0</b> ft. depth Height: Above/Below Surface <b>0.0</b> ft. Weight _____ lb./ft. Drive Shoe? <input type="checkbox"/> Yes <input type="checkbox"/> No																																																	
<b>11. SCREEN:</b> Type: <b>Schedule 40 PVC</b> Diam.: <b>2.0 Inch</b> Slot/Gauge: <b>0.010 Inch</b> Length: <b>10.0</b> Set Between: <b>35.0</b> ft. and <b>40.0</b> ft. NOTE: MULTIPLE SCREENS _____ ft. and _____ ft. USE SECOND SHEET Sieve Analysis <input type="checkbox"/> Yes (please enclose) <input type="checkbox"/> No		<b>12. STATIC WATER LEVEL</b> <b>11.30</b> ft. below land surface after 24 hours																																																	
<table border="1"><thead><tr><th>Formation Description</th><th>*Thickness of Stratum</th><th>Depth to Bottom of Stratum</th></tr></thead><tbody><tr><td>Grass w/ Topsoil</td><td>0.5</td><td>0.5</td></tr><tr><td>Grey/Tan, Silty SAND*</td><td>23.5</td><td>24.0</td></tr><tr><td>Grey/White, Silty SAND*</td><td>16.0</td><td>40.0</td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr></tbody></table>	Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum	Grass w/ Topsoil	0.5	0.5	Grey/Tan, Silty SAND*	23.5	24.0	Grey/White, Silty SAND*	16.0	40.0																																					<b>13. PUMPING LEVEL Below Land Surface.</b> _____ ft. after _____ hrs. Pumping _____ G.P.M. Pumping Test: <input type="checkbox"/> Yes (please enclose) <input type="checkbox"/> No Yield: _____	<b>14. WATER QUALITY</b> Chemical Analysis <input type="checkbox"/> Yes <input type="checkbox"/> No Bacterial Analysis <input type="checkbox"/> Yes <input type="checkbox"/> No Please enclose lab results.	
Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum																																																	
Grass w/ Topsoil	0.5	0.5																																																	
Grey/Tan, Silty SAND*	23.5	24.0																																																	
Grey/White, Silty SAND*	16.0	40.0																																																	
<b>15. ARTIFICIAL FILTER (filter pack)</b> <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Installed from <b>40.0</b> ft. to <b>33.0</b> ft. Effective size <b>1.43</b> Uniformity Coefficient <b>1.30</b>		<b>16. WELL GROUTED?</b> <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Neat Cement <input type="checkbox"/> Bentonite <input checked="" type="checkbox"/> Bentonite/Cement <input type="checkbox"/> Other _____ Depth: From <b>31.0</b> ft. to <b>0.0</b> ft.																																																	
<b>17. NEAREST SOURCE OF POSSIBLE CONTAMINATION:</b> _____ ft. _____ direction Type _____ Well Disinfected <input type="checkbox"/> Yes <input type="checkbox"/> No Type: _____ Amount: _____		<b>18. PUMP:</b> Date installed: _____ Not installed <input type="checkbox"/> Mfr. Name: _____ Model No.: _____ H.P. _____ Volts _____ Length of drop pipe _____ ft. Capacity _____ gpm TYPE: <input type="checkbox"/> Submersible <input type="checkbox"/> Jet (shallow) <input type="checkbox"/> Turbine <input type="checkbox"/> Jet (deep) <input type="checkbox"/> Reciprocating <input type="checkbox"/> Centrifugal																																																	
<b>19. WELL DRILLER:</b> <b>William Walker</b> CERT. NO.: <b>02402</b> Address: (Print) _____ Level: A B C D (circle one) <b>1317 Hummingbird Drive</b> ✓ West Columbia, South Carolina 29169 Telephone No.: <b>803-351-7936</b> Fax No.:		<b>20. WATER WELL DRILLER'S CERTIFICATION:</b> This well was drilled under my direction and this report is true to the best of my knowledge and belief.   Signed: _____ Date: <b>11/15/2016</b> Well Driller																																																	
<b>5. REMARKS:</b> DW-8 *Bentonite Seal From 31.0'-33.0'		If D Level Driller, provide supervising driller's name:																																																	
<b>6. TYPE:</b> <input type="checkbox"/> Mud Rotary <input type="checkbox"/> Jetted <input type="checkbox"/> Bored <input type="checkbox"/> Dug <input type="checkbox"/> Air Rotary <input type="checkbox"/> Driven <input type="checkbox"/> Cable tool <input checked="" type="checkbox"/> Other																																																			



**Well Development Data Verification Form**  
**Underground Storage Tank Management Division**

Facility Name: Steady Simmons Site ID#: 18856 Date: 11/7/2016  
 Drilling Company: William Walker Environmental Driller: William Walker  
 Field Personnel: William Walker Driller Certification Number: B 02042  
 Weather Conditions: Clear Temp. (°F): 70

**Well Development Method**

Surge Block: \_\_\_\_\_ Submersible Pump: X Air Lifting: \_\_\_\_\_  
 \*\*Bailing can be combined with any of the above methods, but not utilized alone for development

**Quality Assurance**

<u>pH Meter:</u>	<u>Conductivity Meter:</u>	<u>Temperature Meter:</u>	<u>Turbidity Meter:</u>
Serial no. <u>15E101481</u>	Serial no. <u>15E101481</u>	Serial no. <u>14H103098</u>	Serial No. <u>201301174</u>
pH=4.0 <u>X</u>	Standard <u>X</u>		NTU 0.0 <u>X</u>
pH-7.0 <u>X</u>			NTU 1.0 <u>X</u>
pH-10.0 <u>X</u>			NTU10.0 <u>X</u>

**Drilling Method**

Hollow Stem Augers: X Solid Flight Augers: \_\_\_\_\_ Direct Push: \_\_\_\_\_  
 Air Rotary: \_\_\_\_\_ Mud Rotary: \_\_\_\_\_ Sonic: \_\_\_\_\_

Monitoring Well ID#: DW-8 Well Casing Diameter (in): 2 Borehole Diameter (in): 6.0  
 Depth to Ground Water (DGW): 11.30 ft. Screen Length (ft): 5 Slot Size (in): 0.010  
 Total Well Depth (TWD): 39.58 ft. Screen Interval: 35.0 ft. to 40.0 ft.  
 Length of Water Column (TWD-DGW): 28.28 ft. Type of Drilling Fluid Used: N/A  
 Total Gallons of Water Removed: 35.00 gals. Drilling Fluids Recovered: N/A

Time:	10:35	10:40	10:45	10:50	10:55	11:00		
pH(s.u)*:	7.58	7.92	8.00	8.02	8.00	7.99		
Specific Conductivity (mmhos/cm):	264.2	266.1	268.7	270.5	272.3	271.0		
Water Temperature (°C)*:	19.5	20.9	21.4	21.5	21.4	21.4		
Turbidity (NTU)*:	874.7	431.6	295.4	73.7	25.2	8.4		
Physical Characteristics (color/odor):	Cloudy/ No Odor	Cloudy/ No Odor	Clear/ No Odor	Clear/ No Odor	Clear/ No Odor	Clear/ No Odor		
Depth to Water (ft from TOC):	11.30	13.56	15.45	20.78	21.22	19.56		
Cumulative Gallons Removed:	0.00	5.00	10.00	15.00	20.00	30.00		

\*Development is completed once groundwater turbidity is ≤10 NTU and all parameters are ± 10%

**Detailed Description of Well Development Process:**

The monitoring well was developed using a Mini-Monsoon well pump. The submersible pump was placed inside the water column and operated until all water was evacuated. The well was allowed to recharge before development continued. Development was complete after 30.0 gallons were removed.

Driller Signature:

Date: 11/15/2016



**APPENDIX F:**  
**AQUIFER EVALUATION SUMMARY FORMS, DATA, GRAPHS, EQUATIONS**  
*(Not Applicable)*

**APPENDIX G:  
DISPOSAL MANIFEST**



November 15, 2016

Re: Treatment of Purge Water  
Steady Simmons  
Early Branch, South Carolina  
SCDHEC Site ID Number 18856  
MECI Project Number 16-5552

To Whom It May Concern;

Midlands Environmental Consultants, Inc. is providing the following letter as certification that treatment of the referenced purge water complied with the conditions of "Proposed Conditions for Use of Portable Activated Carbon Units for the Treatment of Small Volumes of Petroleum Hydrocarbon Contaminated Groundwater", as described in the following:

Applicability:

Groundwater treated was obtained as a result development of wells and sampling.

Conditions:

1. The purge/bail water from all wells is mixed before usage of the Activated Carbon Unit.
2. No free-product was detected in any of the purge water drums.
3. Analytical results of from well sampling show average concentrations of petroleum hydrocarbon constituents less than 5000 parts per billion (ppb) Benzene and less than 20,000 ppb total BTEX.
4. The existing carbon pack will be replaced/reactivated every 5,000 gallons.
5. Record of usage is maintained by Contractor.
6. Any and all recommendations and conditions issued by the Manufacturer have been adhered to.
7. Any and all recommendations and conditions (even on a site by site basis) issued by the SCDHEC must be adhered to.

All purge waters were treated on-site using an up-flow treatment drum loaded with 80 pounds of activated carbon. Carbon will be loaded to a maximum of 3 pounds of total organic compounds or 5,000 gallons of development/purge water, whichever occurs first.

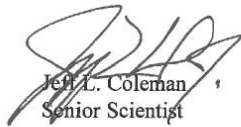
November 15, 2016

**50.0 gallons was disposed on November 7, 2016, during the development of the newly installed monitoring wells.**

Midlands Environmental also tracks cumulative organic compounds adsorbed on the activated carbon to ensure the capacity of carbon mass is not over-charged. This data is available upon request.

Should you have any questions or comments, please contact the undersigned.

Sincerely,  
Midlands Environmental Consultants, Inc.



Jeff L. Coleman  
Senior Scientist



Richland County LF  
 1047 Highway Church Road  
 Elgin, SC, 29045  
 Ph: (803) 788-3054

Original  
 Ticket# 1493147

Customer Name MIDLANDSENVIRON MIDLANDS ENVI Carrier MIDLANDSENVIRON MIDLANDS ENVIRONMENT  
 Ticket Date 11/08/2016 Vehicle# 1 Volume  
 Payment Type Credit Account Container  
 Manual Ticket# Driver  
 Hauling Ticket# Check#  
 Route Billing # 0000469  
 State Waste Code Gen EPA ID  
 Manifest 0  
 Destination  
 PO  
 Profile VA2718 (SOIL FROM UST ASSESSMENT)  
 Generator 126-MIDLANDSENVIRONMENTAL MIDLANDS ENVIRONMENTAL

	Time	Scale	ScaleMaster	Gross	15480 lb
In	11/08/2016 10:52:10	Inbound #1	KENNY1	Tare	9180 lb
Out	11/08/2016 11:23:10	Outbound	KENNY1	Net	6300 lb
				Tons	3.15

Comments

Product	LD%	Qty	UOM	Rate	Fee	Amount	Origin
1 SOIL-Cont. Soil -	100	3.15	Tons				32-LEXINGT
2 FUEL-Fuel Surcharg	100		%				32-LEXINGT
3 EVF-P-Standard Env	100		%				32-LEXINGT
4 RCR-P-Regulatory C	100		%				32-LEXINGT

Total Fees  
 Total Ticket

SIGNATURE \_\_\_\_\_



# SPECIAL WASTE MANIFEST

W

WASTE ID NUMBER VA2718	Richland Landfill 1047 Highway Church Road Elgin, SC 29045  Special Waste Phone: 803-744-3345 Fax: 866-904-7194  Prepared by: Sandra Reeves
EXPIRATION DATE December 11, 2016	
GENERATOR OF WASTE: MIDLANDS ENV. CONSULTANTS, INC. - VARIOUS ACCOUNT NUMBER: 820-469	
CUSTOMER: MIDLANDS ENV. CONSULTANTS, INC.	
LOCATION OF WASTE: CITY: Lexington COUNTY: Lexington	
PHONE NUMBER: 803-808-2043	CONTACT: LYNN SHANE
FAX NUMBER: 803-808-2048	
GENERATOR'S SIGNATURE: <i>Tom Er</i>	DATE: 11-8-16
TRANSPORTER OF WASTE: MELI	
DATE: 11-8-16	TRUCK NUMBER: 1
DRIVER'S SIGNATURE: <i>Tom Er</i>	
**** TO BE COMPLETED BY RICHLAND LANDFILL ****	
DISPOSAL SITE: RICHLAND LANDFILL ELGIN, SC	Waste Class: SOIL
DESCRIPTION OF WASTE: SOIL FROM UST ASSESSMENT	
TICKET NUMBER: 1493147	TONNAGE: 3.15
RECEIVED BY: <i>[Signature]</i>	

Steady Simmons 18856 = 40% = 1.26 tons  
 Pig + Chick 03558 = 30% = 0.945 tons  
 Davis + Doscher 11499 = 20% = 0.63 tons  
 Steppard Property 16969 = 10% = 0.315 tons

**APPENDIX H:**  
**LOCAL ZONING REGULATIONS**  
*(Not Applicable)*

**APPENDIX I:**  
**FATE AND TRANSPORT MODELING**  
*(Not Applicable)*



**APPENDIX J:  
ACCESS AGREEMENTS**

**CRAWFORD**  
**ENVIRONMENTAL**  
**SERVICES**

**Access Agreement**

I, \_\_\_\_\_, hereby certify that I am the owner of record or otherwise have legal right to grant entry and access to the property for the purpose described below ("owner") and do hereby grant the South Carolina Department of Health and Environmental Control (SCDHEC), its consulting firm Crawford Environmental Services (CES) and its agents, employees, subcontractors, and assigns the right to enter upon the property located at or described as:

Address: 1666 S. Carolina Highway, Town Branch, SC

Tax Map ID: Wayne Thompson Highway

For the purpose of performing a Tier II Environmental Site Assessment, as requested by SCDHEC, which will include the following categories of work, if necessary:

- ❖ Drilling and installation of field screening test borings
- ❖ Spread non-contaminated drill cuttings at locations determined by property owner
- ❖ Drilling and installation of groundwater monitoring wells
- ❖ Periodically measuring groundwater, about once every three months
- ❖ Collection of groundwater samples, about once every three months
- ❖ Maintenance of monitoring wells

Access to the monitoring well(s) will be needed for a period not likely to exceed five years after monitoring well installation has been completed. At the time, the property owner may contact SCDHEC or CES if there are any questions or concerns about the work on the property. This permission to enter the property is effective upon execution of this document. This permission to Enter Property is granted with consideration of CES making reasonable restoration to the property by the conclusion of assessment activities resulting from CES activities on site.

**Consented to Giving Access:**

Wayne Thompson Highway  
Property Owners Signature Wayne Thompson  
*due to health issues*

Printed Name \_\_\_\_\_

Telephone Number \_\_\_\_\_

Access Denied: \_\_\_\_\_

Property Owners Signature \_\_\_\_\_

Printed Name  
MID-ATLANTIC REGION  
15 CHURCH AVENUE, SW  
ROANOKE, VIRGINIA 24011  
OFFICE 540 343.6256  
FAX 540 343.6259  
ccrawford@crawfordenvironmental.com

Reference UST Permit #: \_\_\_\_\_

18365

**Check Any That Apply:**

- Please provide a copy of the report
- Electronic Copy
- Paper Copy

Please return to:  
Crawford Environmental Services  
104 Corporate Blvd, Suite 412  
West Columbia, SC 29196  
SOUTHEAST REGION  
104 CORPORATE BLVD, SUITE 412  
WEST COLUMBIA, SOUTH CAROLINA 29169  
OFFICE 803 708.0079  
FAX 803 708.8137  
dubrien@crawfordenvironmental.com

**APPENDIX K:  
DATA VERIFICATION CHECKLIST**

**Contractor Checklist**

Item#	Item	Yes	No	N/A
1	Are Facility Name, Permit #, and address provided?	X		
2	Is UST Owner/Operator name, address, & phone number provided?	X		
3	Is name, address, & phone number of current property owner provided?	X		
4	Is the DHEC Certified UST Site Rehabilitation Contractor's Name, Address, telephone number, and certification number provided?	X		
5	Is the name, address, telephone number, and certification number of the well driller that installed borings/monitoring wells provided?	X		
6	Is the name, address, telephone number, and certification number of the certified laboratory(ies) performing analytical analyses provided?			X
7	Has the facility history been summarized?	X		
8	Has the regional geology and hydrogeology been described?	X		
9	Are the receptor survey results provided as required?			X
10	Has current use of the site and adjacent land been described?	X		
11	Has the site-specific geology and hydrogeology been described?	X		
12	Has the primary soil type been described?	X		
13	Have field screening results been described?			X
14	Has a description of the soil sample collection and preservation been detailed?			X
15	Has the field screening methodology and procedure been detailed?			X
16	Has the monitoring well installation and development dates been provided?	X		
17	Has the method of well development been detailed?	X		
18	Has justification been provided for the locations of the monitoring wells?	X		
19	Have the monitoring wells been labeled in accordance with the UST QAPP guidelines?	X		
20	Has the groundwater sampling methodology been detailed?			X
21	Have the groundwater sampling dates and groundwater measurements been provided? (Appendix E)			X
22	Has the purging methodology been detailed?			X
23	Has the volume of water purged from each well been provided along with measurements to verify that purging is complete? (Appendix B)			X
24	If free-product is present, has the thickness been provided?			X
25	Does the report include a brief discussion of the assessment done and the results?	X		
26	Does the report include a brief discussion of the aquifer evaluation and results?			X
27	Does the report include a brief discussion of the fate & transport models used?			X

Item#	Item	Yes	No	N/A
28	Are the site-conceptual model tables included? (Tier 1 Risk Evaluation)			X
29	Have the exposure pathways been analyzed? (Tier 2 Risk Evaluation)			X
30	Have the SSTLs for each compound and pathway been calculated? (Tier 2 Risk Evaluation)			X
31	Have recommendations for further action been provided and explained?			X
32	Has the soil analytical data for the site been provided in tabular format? (Table 1)			X
33	Has the potentiometric data for the site been provided in tabular format? (Table 2)	X		
34	Has the <u>current</u> and historical laboratory data been provided in tabular format? (Tables 3 & 3A)	X		
35	Have the aquifer characteristics been provided and summarized on the appropriate form? (Appendix F)			X
36	Have the Site conceptual model tables been included? (Tier 1 Risk Evaluation)			X
37	Has the topographic map been provided with all required elements? (Figure 1)	X		
38	Has the site base map been provided with all required elements? (Figure 2)	X		
39	Have the CoC site maps been provided? (Figures 4)			X
40	Has the site potentiometric map been provided? (Figure 5)	X		
41	Have the geologic cross-sections been provided? (Figure 6)			X
42	Have maps showing the predicted migration of the CoCs through time been provided? (Tier 2 Risk Evaluation)			X
43	Has the site survey been provided and include all necessary elements? (Appendix A)			X
44	Have the sampling logs, chain of custody forms, and the analytical data package been included with all required elements? (Appendix B)			X
45	Is the laboratory performing the analyses properly certified?			X
46	Has the tax map been included with all necessary elements? (Appendix C)			X
47	Have the soil boring/field screening logs been provided? (Appendix D)			X
48	Have the well completion logs and SCDHEC Form 1903 been provided? (Appendix E)	X		
49	Have the aquifer evaluation forms, data, graphs, equations, etc. been provided? (Appendix F)			X
50	Have the disposal manifests been provided? (Appendix G)	X		
51	Has a copy of the local zoning regulations been provided? (Appendix H)			X
52	Has all fate and transport modeling been provided? (Appendix I)			X
53	Have copies of all access agreements obtained by the contractor been provided? (Appendix J)	X		
54	Has a copy of this form been attached to the final report and are explanations for any missing or incomplete data been provided? (Appendix K)	X		





UNDERGROUND STORAGE TANK PROGRAM  
BUREAU OF LAND AND WASTE MANAGEMENT  
2600 Bull Street, Columbia, South Carolina 29201  
Telephone: 803-898-2544

MEMORANDUM



TO: Midlands Environmental Consultants, Inc

FROM: Minda Hornosky

RE: Site Specific Work Plan Request

Facility Name: Steady Simmons

Permit Number: 18856

County: Jasper

Work To Be Completed: Low-Flow purge all monitoring wells before sampling.

Total Number of Monitoring Well Samples: 25 + 3 surface water samples

Analysis Being Requested: BTEX, N, MTBE, 1,2-DCA, oxygenates, and EDB

Total Number of Water Supply Well Samples: 9

Analysis Being Requested: BTEX, N, MTBE, 1,2-DCA, oxygenates, and EDB



**BRYAN SHANE  
MIDLANDS ENVIRONMENTAL CONSULTANTS  
PO BOX 854  
LEXINGTON SC 29071**

**DEC 23 2016**

Re: **Site Specific Work Plan Request**  
Groundwater Sampling Contract  
Solicitation # IFB-5400007403, PO#4600529921

Dear Mr. Shane:

In accordance with bid solicitation # IFB-5400007403 and the UST Management Division Quality Assurance Program Plan (QAPP), Revision 3.1 it is requested that you submit a Site Specific Work Plan for each site attached. The plans must be submitted **within 15 business days** to my attention. The project manager for each site will issue a notice to proceed once the plan has been reviewed and approved.

Please contact me with the sampling schedule before commencing work at these facilities. In addition, a weekly update for each site is required to be submitted via e-mail to the site's project manager and myself. If you have any questions or need further assistance, please contact me at (803) 898-0606 or [bryantjc@dhec.sc.gov](mailto:bryantjc@dhec.sc.gov).

Sincerely,

A handwritten signature in blue ink, appearing to read "J. C. Bryant", is written over a light blue horizontal line.

John C. Bryant, Hydrogeologist  
Corrective Action Section  
UST Management Division  
Bureau of Land & Waste Management

enc: Site Information Packages

cc: Technical Files





January 4, 2017

Mr. John C. Bryant, Hydrogeologist  
Corrective Action Section  
Assessment and Corrective Action Division  
Underground Storage Tank Program  
Bureau of Land and Waste Management  
South Carolina Department of Health  
and Environmental Control  
2600 Bull Street  
Columbia, South Carolina 29201

Subject: Site-Specific Work Plan  
Steady Simmons  
Early Branch, South Carolina  
SCDHEC Site ID Number 18856  
MECI Project Number 17-5824  
Certified Site Rehabilitation Contractor UCC-0009



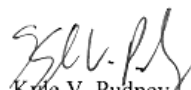
Dear Mr. Bryant,

Midlands Environmental Consultants Inc. (MECI) is pleased to submit the attached Site-Specific Work Plan for the referenced site.

On January 4, 2017, MECI personnel performed a site visit to the subject site to evaluate site conditions, locate monitoring wells and identify potential problems for future sampling activities.

If you have any question or comments please feel free to contact us at 803-808-2043.

Sincerely,  
**Midlands Environmental Consultants, Inc.**

  
Kyle V. Pudney  
Project Biologist

  
Jeff L. Coleman  
Senior Scientist



**Site-Specific Work Plan for Approved ACQAP  
Underground Storage Tank Management Division**

To: Ms. Minda Homosky (SCDHEC Project Manager)  
 From: Jeff L. Coleman (Contractor Project Manager)  
 Contractor: Midlands Environmental Consultants, Inc. UST Contractor Certification Number: 009

Facility Name: Steady Simmons UST Permit #: 18856  
 Facility Address: 16661 Grays Highway, Early Branch, SC 29916  
 Responsible Party: Orphan:Steady Simmons Phone: N/A  
 RP Address: N/A  
 Property Owner (if different): Wayne Thomapson  
 Property Owner Address: 16657 Grays Highway, Early Branch, SC 29916  
 Current Use of Property: Abandoned Building/Residence

**Scope of Work** (Please check all that apply)

- IGWA       Tier II       Groundwater Sampling       GAC  
 Tier I       Monitoring Well Installation       Other \_\_\_\_\_

**Analyses** (Please check all that apply)

Groundwater/Surface Water:

- BTEXNMDCA (8260B)       Lead       BOD       Methane  
 Oxygenates (8260B)       8 RCRA Metals       Nitrate       Ethanol  
 EDB (8011)       TPH       Sulfate       Dissolved Iron  
 PAH (8270D)       pH       Other \_\_\_\_\_

Drinking Water Supply Wells:

- BTEXNMDCA (524.2)       Mercury (200.8 245.1 or 245.2)       EDB (504.1)  
 Oxygenates & Ethanol (8260B)       RCRA Metals (200.8)

Soil:

- BTEXNM       Lead       RCRA Metals       TPH-DRO (3550B/8015B)       Grain Size  
 PAH       Oil & Grease (9071)       TPH-GRO (5030B/8015B)       TOC

Air:

- BTEXN

**Sample Collection** (Estimate the number of samples of each matrix that are expected to be collected.)

\_\_\_\_\_ Soil      9 Water Supply Wells      \_\_\_\_\_ Air      3 Field Blank  
25 Monitoring Wells      3 Surface Water      3 Duplicate      3 Trip Blank

**Field Screening Methodology**

Estimate number and total completed depth for each point, and include their proposed locations on the attached map.

# of shallow points proposed: \_\_\_\_\_ Estimated Footage: \_\_\_\_\_ feet per point

# of deep points proposed: \_\_\_\_\_ Estimated Footage: \_\_\_\_\_ feet per point

Field Screening Methodology: \_\_\_\_\_

**Permanent Monitoring Wells**

Estimate number and total completed depth for each well, and include their proposed locations on the attached map.

# of shallow wells: \_\_\_\_\_ Estimated Footage: \_\_\_\_\_ feet per point

# of deep wells: \_\_\_\_\_ Estimated Footage: \_\_\_\_\_ feet per point

# of recovery wells: \_\_\_\_\_ Estimated Footage: \_\_\_\_\_ feet per point

Comments, if warranted:

UST Permit #: 18856 Facility Name: Steady Simmons

**Implementation Schedule** (Number of calendar days from approval)

Field Work Start-Up: 1/4/2017 Field Work Completion: 2/14/2017

Report Submittal: 3/4/2017 # of Copies Provided to Property Owners: 0

**Aquifer Characterization**

Pump Test:  Slug Test:  (Check one and provide explanation below for choice)

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**Investigation Derived Waste Disposal**

Soil: \_\_\_\_\_ Tons Purge Water: 200.0 Gallons

Drilling Fluids: \_\_\_\_\_ Gallons Free-Phase Product: \_\_\_\_\_ Gallons

**Additional Details For This Scope of Work**

For example, list wells to be sampled, wells to be abandoned/repared, well pads/bolts/caps to replace, details of AFVR event, etc.

-During the initial site visit, monitoring well MW-10 was found to be in a large puddle; however should be able to be sampled. All other wells were found to be in good condition.

-Three surface water features will be sampled.

-Water supply wells WSW-6 and WSW-8 were found to be inactive with no electrical supply. Additionally, WSW-5 was located inside a locked fence. During sampling activities, MECI will make our best effort to contact the property owner of WSW-5 to collect samples.

-Samples from monitoring wells will be purged via low-flow sampling techniques.

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**Compliance With Annual Contractor Quality Assurance Plan (ACQAP)**

Yes Laboratory as indicated in ACQAP? (Yes/No) If no, indicate laboratory information below.

Name of Laboratory: \_\_\_\_\_

SCDHEC Certification Number: \_\_\_\_\_

Name of Laboratory Director: \_\_\_\_\_

N/A Well Driller as indicated in ACQAP? (Yes/No) If no, indicate driller information below.

Name of Well Driller: \_\_\_\_\_

SCLLR Certification Number: \_\_\_\_\_

None Other variations from ACQAP. Please describe below.

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**Attachments**

1. Attach a copy of the relevant portion of the USGS topographic map showing the site location.
2. Prepare a site base map. This map must be accurately scaled, but does not need to be surveyed. The map must include the following:

North Arrow	Proposed monitoring well locations
Location of property lines	Legend with facility name and address, UST permit number, and bar scale
Location of buildings	Streets or highways (indicate names and numbers)
Previous soil sampling locations	Location of all present and former ASTs and USTs
Previous monitoring well locations	Location of all potential receptors
Proposed soil boring locations	
3. Assessment Component Cost Agreement, SCDHEC Form D-3664



**ASSESSMENT COMPONENT COST AGREEMENT  
SOUTH CAROLINA**

Department of Health and Environmental Control  
Underground Storage Tank Management Division  
State Underground Petroleum Environmental Response Bank Account  
**CONTRACT PO NUMBER 4600497949**

**Facility Name: Steady Simmons**

**UST Permit #:** 18856

**Cost Agreement #:** Proposal

ITEM	QUANTITY	UNIT	UNIT PRICE	TOTAL
<b>1. Plan*</b>				
A1. Site Specific Work Plan	1	each	\$0.00	\$0.00
C1. QAPP Appendix B		each	\$0.00	\$0.00
<b>2. A1. Receptor Survey</b>		each	\$0.00	\$0.00
<b>4. Mob/Demob</b>				
B1. Personnel	4	each	\$350.00	\$1,400.00
<b>10. Groundwater Sample Collection / Gauge Depth to Water or Product (Each)</b>				
A1. Groundwater Purge		per well	\$16.00	\$0.00
B1. Air or Vapors		samples	\$0.00	\$0.00
C1. Water Supply	12	samples	\$10.00	\$120.00
D1. Groundwater No Purge		per well	\$8.00	\$0.00
E1. Gauge Well only		per well	\$0.00	\$0.00
F1. Sample Below Product		per well	\$0.00	\$0.00
G1. Passive Diffusion Bag		each	\$20.00	\$0.00
H1. Field Blank	3	each	\$10.00	\$30.00
<b>17. Disposal* (gallons or tons)</b>				
AA. Disposal/Water	200	gallons	\$1.00	\$200.00
BB. Free Product		gallons	\$0.00	\$0.00
Note: Rate includes costs or rental of suitable container(s)				
<b>23. D. Site Reconnaissance</b>	1	each	\$0.00	\$0.00
<b>18. Miscellaneous (attach receipts)</b>				
GW Contour Map		each	\$25.00	\$0.00
Isopleth Map		each	\$25.00	\$0.00
High-Strength Well Pad Replacement		each	\$75.00	\$0.00
Trip Blank	3	each	\$10.00	\$30.00
Low Flow Sampling	25	per well	\$65.00	\$1,625.00
Data Table		each	\$25.00	\$0.00
<b>25. Well Repair</b>				
B1. Repair 2x2 MW Pad		each	\$75.00	\$0.00
C1. Repair 4x4 MW Pad		each	\$75.00	\$0.00
D1. Replace Well Vault		each	\$75.00	\$0.00
E. Replace well cover		each	\$25.00	\$0.00
F1. Replace well cover bolts		each	\$2.60	\$0.00
G. Replace locking well cap & lock		each	\$15.00	\$0.00
K1. Replace Missing Well ID Plate		each	\$10.00	\$0.00
<b>TOTAL</b>				<b>\$3,405.00</b>

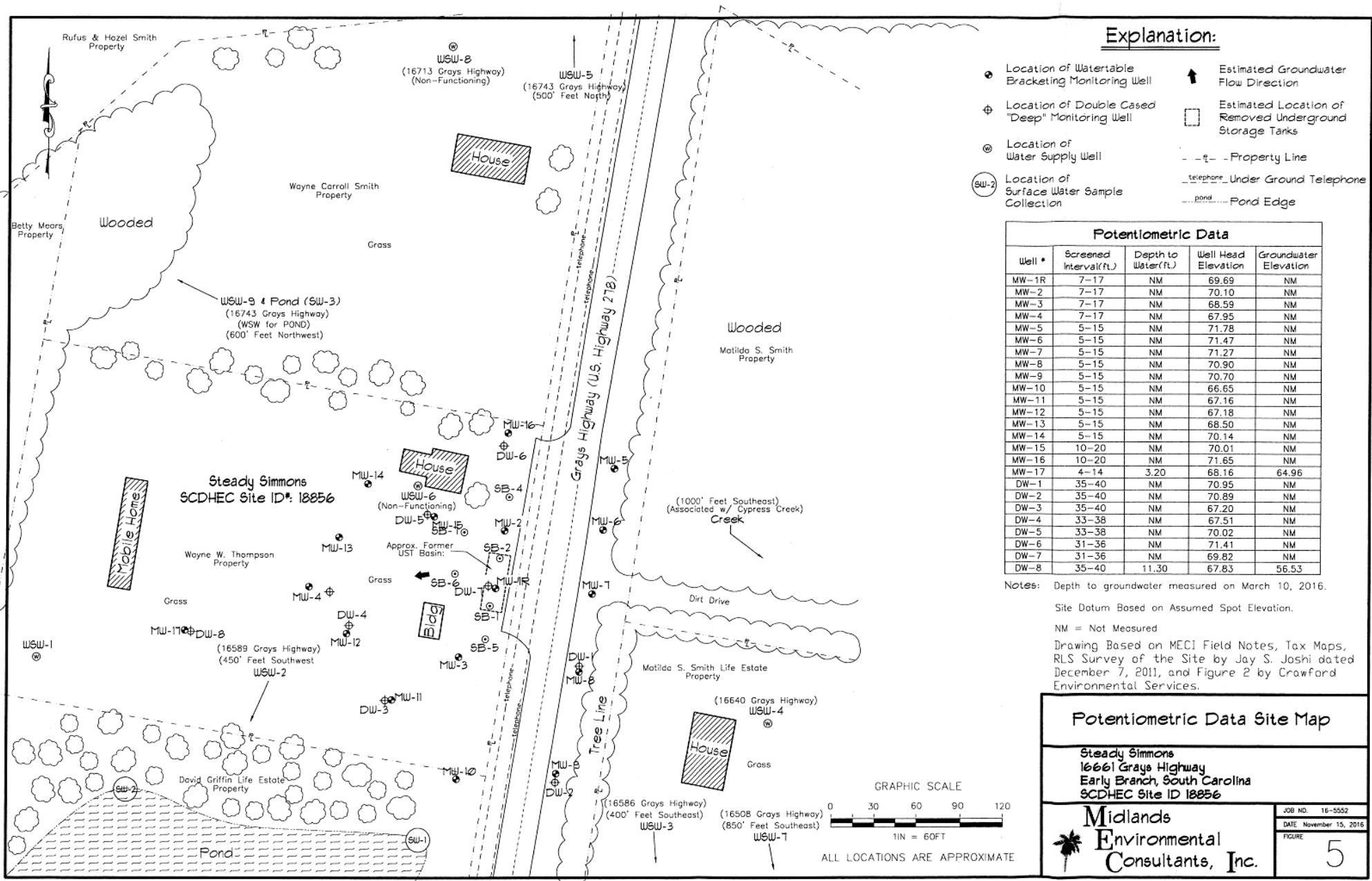


Declination  
 GN 0.01° W  
 MN 7.06° W

SCALE 1:24000  
 0 1000 2000 3000 4000 5000 6000  
 FEET

Reference: Grays, South Carolina  
 USGS 7.5 Min. Quad  
 Countour Interval - 5 Feet

<p>Midlands          Environmental          Consultants, Inc.</p>	<p>Site Location</p>
<p>Steady Simmons          16661 Grays Highway, Early Branch, South Carolina          SCDHEC Site ID# 18856</p>	
<p>Figure 1</p>	<p>MECI 16-5552</p>



**Explanation:**

- Location of Watertable Bracketing Monitoring Well
- ⊕ Location of Double Cased "Deep" Monitoring Well
- ⊙ Location of Water Supply Well
- ⊙ (SW-2) Location of Surface Water Sample Collection
- ↑ Estimated Groundwater Flow Direction
- Estimated Location of Removed Underground Storage Tanks
- - - Property Line
- Telephone Under Ground Telephone
- Pond Edge

**Potentiometric Data**

Well #	Screened Interval(ft.)	Depth to Water(ft.)	Well Head Elevation	Groundwater Elevation
MW-1R	7-17	NM	69.69	NM
MW-2	7-17	NM	70.10	NM
MW-3	7-17	NM	68.59	NM
MW-4	7-17	NM	67.95	NM
MW-5	5-15	NM	71.78	NM
MW-6	5-15	NM	71.47	NM
MW-7	5-15	NM	71.27	NM
MW-8	5-15	NM	70.90	NM
MW-9	5-15	NM	70.70	NM
MW-10	5-15	NM	66.65	NM
MW-11	5-15	NM	67.16	NM
MW-12	5-15	NM	67.18	NM
MW-13	5-15	NM	68.50	NM
MW-14	5-15	NM	70.14	NM
MW-15	10-20	NM	70.01	NM
MW-16	10-20	NM	71.65	NM
MW-17	4-14	3.20	68.16	64.96
DW-1	35-40	NM	70.95	NM
DW-2	35-40	NM	70.89	NM
DW-3	35-40	NM	67.20	NM
DW-4	33-38	NM	67.51	NM
DW-5	33-38	NM	70.02	NM
DW-6	31-36	NM	71.41	NM
DW-7	31-36	NM	69.82	NM
DW-8	35-40	11.30	67.83	56.53

Notes: Depth to groundwater measured on March 10, 2016.

Site Datum Based on Assumed Spot Elevation.

NM = Not Measured

Drawing Based on MECI Field Notes, Tax Maps, RLS Survey of the Site by Jay S. Joshi dated December 7, 2011, and Figure 2 by Crawford Environmental Services.

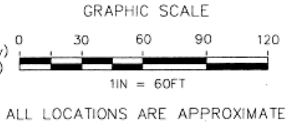
**Potentiometric Data Site Map**

Steady Simmons  
16661 Grays Highway  
Early Branch, South Carolina  
SCDHEC Site ID 18856

Midlands  
Environmental  
Consultants, Inc.

JOB NO. 16-5552  
DATE November 15, 2016  
FIGURE

5





FEB 01 2017



**BRYAN SHANE  
MIDLANDS ENVIRONMENTAL CONSULTANTS  
PO BOX 854  
LEXINGTON SC 29071**

Re: **Notice to Proceed-Site Specific Work Plan Approval**  
Groundwater Sampling Contract  
Solicitation # IFB-5400007403, PO#4600529921  
Steady Simmons, 16661 Grays Highway, Early Branch, SC  
UST Permit #18856; MECI CA #53648; Pace MW CA #53647; Pace WSW CA#53646  
Jasper County

Dear Mr. Shane:

In accordance with bid solicitation #IFB-5400007403 and the UST Management Division Quality Assurance Program Plan (QAPP), the Site-Specific Work Plan has been reviewed and approved. In accordance with the approved ACQAP, a status report of the project should be provided on a weekly basis via e-mail. If any quality assurance problems arise, you must contact me within 24 hours via phone or e-mail. In addition, a discussion of the problem(s) encountered, including quality assurance problems, the actions taken, and the results must be included in the final report submitted to the UST Management Division.

MECI will perform services at the site on behalf of the site's responsible party (RP); however, payment will be made from the SUPERB Account. The site's RP has no obligation for payment for this scope of work. Please coordinate access to the facility with the property owner. The Agency grants pre-approval for transportation of virgin petroleum impacted soil and groundwater from the referenced site to a permitted treatment facility. There can be no spillage or leakage in transport. All investigation-derived waste (IDW) must be properly contained and labeled prior to disposal. A copy of the disposal manifest and/or acceptance letter from the receiving facility that clearly designates the quantity received must be included with the final report. The SUPERB Account will not reimburse for transportation or treatment of soil and/or groundwater with concentrations below RBSLs.

**Please note that sampling should be conducted within 15 calendar days from the date of this letter. The final report is due within 3 weeks from the date the site is sampled. If the site is not sampled by the specified due date or the report is not received in the specified time period, a late fee may be imposed.** The final report should contain the requirements of Section III.2.15 of the bid solicitation. The final report should be submitted to John Bryant, the contract manager.

Page 2

If you have any site-specific questions, please contact me at (803) 898-7542 or via e-mail at hornosms@dhec.sc.gov. If you have any contract specific questions, please contact John Bryant at (803) 898-0606 or via e-mail at bryantjc@dhec.sc.gov.

Sincerely,

A handwritten signature in cursive script, appearing to read "Minda Hornosky".

Minda Hornosky, Hydrogeologist  
Assessment Section  
UST Management Division  
Bureau of Land & Waste Management

enc: Approved Cost Agreement (both CAs)

cc: John Bryant, Corrective Action Section, UST Management Division (w/o encs)  
Trey Carter, Pace Analytical Services, 9800 Kinsey Ave, Ste 100, Huntersville, NC, 28078 (w/app. CA)  
Technical Files (w/encs)



**Approved Cost Agreement      53646**

• Facility: 18856    STEADY SIMMONS

HORNOSMS

PO Number:

<u>Task / Description</u>	<u>Categories</u>	<u>Item Description</u>	<u>Qty / Pct</u>	<u>Unit Price</u>	<u>Amount</u>
18	MISCELLANEOUS				
		BTEX+NAPTH+MTBE+1,2 DCA (524.2)	12.0000	\$39.000	468.00
		EDB (504.1)	12.0000	\$18.000	216.00
		OXYGENATES+ETHANOL (8260B)	12.0000	\$13.000	156.00
		<b>Total Amount</b>			<b>840.00</b>

**Approved Cost Agreement 53647**

Facility: 18856 STEADY SIMMONS

HORNOSMS

PO Number:

<u>Task / Description</u>	<u>Categories</u>	<u>Item Description</u>	<u>Qty / Pct</u>	<u>Unit Price</u>	<u>Amount</u>
11 ANALYSES					
	GW GROUNDWATER	A2 BTEXNM+OXYGS+1,2-DCA+ETH-8260B	36.0000	\$19.000	684.00
		F1 EDB BY 8011	35.0000	\$18.000	630.00
		<b>Total Amount</b>			1,314.00

**Approved Cost Agreement 53648**

Facility: 18856 STEADY SIMMONS

HORNOSMS

PO Number:

<u>Task / Description</u>	<u>Categories</u>	<u>Item Description</u>	<u>Qty / Pct</u>	<u>Unit Price</u>	<u>Amount</u>
04 MOB/DEMOB		B1 PERSONNEL	4.0000	\$350.000	1,400.00
10 SAMPLE COLLECTION		C1 WATER SUPPLY	12.0000	\$10.000	120.00
		D1 GROUNDWATER NO PURGE/DUPLICATE	3.0000	\$8.000	24.00
		H1 FIELD BLANK	3.0000	\$10.000	30.00
17 DISPOSAL		AA WASTEWATER	200.0000	\$1.000	200.00
18 MISCELLANEOUS		LOW FLOW SAMPLING	25.0000	\$65.000	1,625.00
		SITE RECONNAISSANCE	1.0000	\$0.000	0.00
		SITE SPECIFIC WORK PLAN	1.0000	\$0.000	0.00
		TRIP BLANK	3.0000	\$10.000	30.00
<b>Total Amount</b>					<b>3,429.00</b>



February 22, 2017



Mr. John C. Bryant, Hydrogeologist  
Corrective Action Section  
Underground Storage Tank Program  
Bureau of Land and Waste Management  
South Carolina Department of Health  
and Environmental Control  
2600 Bull Street  
Columbia, South Carolina 29201

Subject: Report of Groundwater Sampling  
Steady Simmons  
16661 Grays Highway  
Early Branch, South Carolina  
SCDHEC Site ID# 18856, CA # 53648  
MECI Project Number 16-5824  
Certified Site Rehabilitation Contractor UCC-0009



Dear Mr. Bryant,

Midlands Environmental Consultants Inc. (MECI) is pleased to submit the attached Report of Groundwater Sampling for the referenced site. This report describes site activities conducted at the site in general accordance with South Carolina Department of Health and Environmental Control's (SCDHEC) Quality Assurance Program Plan for the Underground Storage Tank Management Division (QAPP).

#### PROJECT INFORMATION

The subject site (Steady Simmons) is located at 16661 Grays Highway, Early Branch, Jasper County, South Carolina. The subject site formerly maintained one 1,000 gallon gasoline underground storage tank (UST), and one 550 gallon gasoline UST. The subject tanks were abandoned by removal from the ground in July of 2002. A release of petroleum product was reported to The South Carolina Department of Health and Environmental Control (SCDHEC) in September of 2002 and subsequently confirmed in October of 2002. The site is currently rated a Class 2BB.

The above information is based on reports and correspondence obtained from MECI field notes and SCDHEC files.

#### MONITORING WELL SAMPLING AND CHEMICAL ANALYSIS

On February 14-15, 2017, MECI personnel collected samples from twenty-four (24) monitoring wells, three (3) surface water locales and seven (7) water supply wells at the subject site. During sampling activities, monitoring well MW-10 was located in a flooded area and unable to be sampled without surface water entering the well. Additionally, water supply wells WSW-6 and WSW-8 were

unable to be sampled due to both wells being inoperable during sampling activities. Based on the request by SCDHEC personnel, all monitoring wells were to be collected via low-flow sampling techniques. Twenty-four (24) monitoring wells were sampled utilizing "tubing-in-screened-interval" low-flow sampling method.

Prior to sampling, MECI personnel utilized an electronic water level indicator for water level measurements and an oil/water interface probe for free phase petroleum product level measurements. Low-flow sampling was performed utilizing a Alexis® Peristaltic Pump for wells with screened intervals no deeper than 25' feet below ground surface (BGS) and a Proactive Moonson Submersible Pump with low-flow controller for wells which maintain screened intervals greater than 25' feet BGS. Low-flow purging was completed until pH measurements remained constant within 0.1 standard unit, dissolved oxygen remained constant within 0.2 mg/l, and specific conductance, temperature and turbidity varies no more than 5% or less than 10 NTU. Field parameter measurements and water levels were obtained every three-five minutes during purging of the well. Sampling/purging was completed utilizing new disposable polyethylene tubing at each well. Once parameters stabilized, samples were collected via the "Gloved-Thumb Method". A new set of nitrile gloves were worn at each monitoring well, and at all time samples were handled. Field measurements of pH, conductivity, dissolved oxygen, water temperature, and turbidity were obtained before well sampling process. MECI utilized YSI Pro20 meter for DO (mg/L) and temperature readings (°C), YSI Pro1030 meter for pH and conductivity (uS) readings and a Micro IPI turbidimeter for turbidity readings (NTU). The wells were sampled in accordance with the most recent revision of SCDHEC's Quality Assurance Program Plan for the Underground Storage Tank Management Division and the most recent revision of MECI's Standard Operating Procedures.

Groundwater samples obtained were sent to Pace Analytical Services, Inc. of Huntersville, NC (SCDHEC Laboratory Certification #99006001) for analysis.

The following sampling matrix contains well development and requested analyses for each well:

Sample ID	Purge	No Purge	Gauge Only	Low-Flow Sampling	Not Sampled	Not Located	BTEX, Naphthalene, MTBE (EPA Method 8260-B)	EDB (EPA Method 8011)	1,2 DCA (EPA Method 8260-B)	8 Oxygenates (EPA Method 8260-B)	Total Lead (EPA Method 6010)	BTEX, Naphthalene, MTBE, 1,2 DCA (EPA Method 8242)	EDB (EPA Method 504.1)
							Analyte Sampled						
MW-1R				X			X	X	X	X			
MW-2				X			X	X	X	X			
MW-3				X			X	X	X	X			
MW-4				X			X	X	X	X			
MW-5				X			X	X	X	X			
MW-6				X			X	X	X	X			
MW-7				X			X	X	X	X			
MW-8				X			X	X	X	X			
MW-9				X			X	X	X	X			
MW-10					X								

Notes: BTEX = Benzene, Toluene, Ethylbenzene, & Total Xylenes  
 MTBE=Methyl tertiary butyl ether  
 1,2 DCA = 1,2 Dichloroethane  
 EDB = Ethylene Dibromide

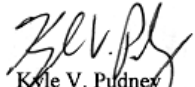
Sample ID	Purge	No Purge	Gauge Only	Low-Flow Sampling	Not Sampled	Not Located	BTEX, Naphthalene, MTBE (EPA Method 8260-B)	EDB (EPA Method 8011)	1,2 DCA (EPA Method 8260-B)	8 Oxygenates (EPA Method 8260-B)	Total Lead (EPA Method 6010)	BTEX, Naphthalene, MTBE, 1,2 DCA (EPA Method 524.2)	EDB (EPA Method 504.1)
Analyte Sampled													
MW-11				X			X	X	X	X			
MW-12				X			X	X	X	X			
MW-13				X			X	X	X	X			
MW-14				X			X	X	X	X			
MW-16				X			X	X	X	X			
MW-17				X			X	X	X	X			
DW-1				X			X	X	X	X			
DW-2				X			X	X	X	X			
DW-3				X			X	X	X	X			
DW-4				X			X	X	X	X			
DW-5				X			X	X	X	X			
DW-6				X			X	X	X	X			
DW-7				X			X	X	X	X			
DW-8				X			X	X	X	X			
SW-1							X	X	X	X			
SW-2							X	X	X	X			
SW-3							X	X	X	X			
DUP-1 (MW-3)							X	X	X	X			
DUP-2 (MW-15)							X	X	X	X			
Field Blank							X	X	X	X			
Field Blank 2							X	X	X	X			
Trip Blank							X		X	X			
Trip Blank 2							X		X	X			
WSW-1										X		X	X
WSW-2										X		X	X
WSW-3										X		X	X
WSW-4										X		X	X
WSW-5										X		X	X
WSW-6				X									
WSW-7										X		X	X
WSW-8				X									
WSW-9										X		X	X
DUP (WSW-1)										X		X	X
Field Blank WSW										X		X	X
Trip Blank WSW										X		X	X


Notes: BTEX = Benzene, Toluene, Ethylbenzene, & Total Xylenes  
MTBE = Methyl tertiary butyl ether  
1,2 DCA = 1,2 Dichloroethane  
EDB = Ethylene Dibromide

Purge water produced by the purging process was treated on-site utilizing a granular activated carbon unit. A total of 42.00 gallons of purge water was disposed of in this manner. A disposal manifest for the referenced purge water is attached at the end of this report.

Please feel free to contact us at 803-808-2043 if you have any immediate questions or comments.

Sincerely,  
**Midlands Environmental Consultants, Inc.**

  
Kyle V. Pudney  
Project Biologist

  
Jeff L. Coleman  
Senior Scientist

Attachments:

**Contractor Checklist**

<b>Item#</b>	<b>Item</b>	<b>Yes</b>	<b>No</b>	<b>N/A</b>
1	Is Facility Name, Permit #, and address provided?	X		
2	Is UST Owner/Operator name, address, & phone number provided?			X
3	Is name, address, & phone number of current property owner provided?			X
4	Is the DHEC Certified UST Site Rehabilitation Contractor's Name, Address, telephone number, and certification number provided?	X		
5	Is the name, address, telephone number, and certification number of the well driller that installed borings/monitoring wells provided?			X
6	Is the name, address, telephone number, and certification number of the certified laboratory(ies) performing analytical analyses provided?	X		
7	Has the facility history been summarized?	X		
8	Has the regional geology and hydrogeology been described?			X
9	Are the receptor survey results provided as required?			X
10	Has current use of the site and adjacent land been described?			X
11	Has the site-specific geology and hydrogeology been described?			X
12	Has the primary soil type been described?			X
13	Have field screening results been described?			X
14	Has a description of the soil sample collection and preservation been detailed?			X
15	Has the field screening methodology and procedure been detailed?			X
16	Has the monitoring well installation and development dates been provided?			X
17	Has the method of well development been detailed?			X
18	Has justification been provided for the locations of the monitoring wells?			X
19	Have the monitoring wells been labeled in accordance with the UST QAPP guidelines?			X
20	Has the groundwater sampling methodology been detailed? See MECI SOP	X		
21	Have the groundwater sampling dates and groundwater measurements been provided? See attached Site Activity Summary Sheet	X		
22	Has the purging methodology been detailed? See MECI SOP	X		
23	Has the volume of water purged from each well been provided along with measurements to verify that purging is complete? See attached Field Data Information Sheets	X		
24	If free-product is present, has the thickness been provided? See attached Site Activity Summary Sheets	X		
25	Does the report include a brief discussion of the assessment done and the results?			X
26	Does the report include a brief discussion of the aquifer evaluation and results?			X
27	Does the report include a brief discussion of the fate & transport models used?			X



Item#	Item	Yes	No	N/A
28	Are the site-conceptual model tables included? (Tier 1 Risk Evaluation)			X
29	Have the exposure pathways been analyzed? (Tier 2 Risk Evaluation)			X
30	Have the SSTLs for each compound and pathway been calculated? (Tier 2 Risk Evaluation)			X
31	Have recommendations for further action been provided and explained?			X
32	Has the soil analytical data for the site been provided in tabular format? (Table 1)			X
33	Has the potentiometric data for the site been provided in tabular format? (Table 2)			X
34	Has the current and historical laboratory data been provided in tabular format?			X
35	Have the aquifer characteristics been provided and summarized on the appropriate form?			X
36	Have the Site conceptual model tables been included? (Tier 1 Risk Evaluation)			X
37	Has the topographic map been provided with all required elements? (Figure 1)	X		
38	Has the site base map been provided with all required elements? (Figure 2)	X		
39	Have the CoC site maps been provided? (Figure 3 & Figure 4)			X
40	Has the site potentiometric map been provided? (Figure 5)			X
41	Have the geologic cross-sections been provided? (Figure 6)			X
42	Have maps showing the predicted migration of the CoCs through time been provided? (Tier 2 Risk Evaluation)			X
43	Has the site survey been provided and include all necessary elements? (Appendix A)			X
44	Have the sampling logs, chain of custody forms, and the analytical data package been included with all required elements? (Appendix B)	X		
45	Is the laboratory performing the analyses properly certified?	X		
46	Has the tax map been included with all necessary elements? (Appendix C)			X
47	Have the soil boring/field screening logs been provided? (Appendix D)			X
48	Have the well completion logs and SCDHEC Form 1903 been provided? (Appendix E)			X
49	Have the aquifer evaluation forms, data, graphs, equations, etc. been provided? (Appendix F)			X
50	Have the disposal manifests been provided? See attached	X		
51	Has a copy of the local zoning regulations been provided? (Appendix H)			X
52	Has all fate and transport modeling been provided? (Appendix I)			X
53	Have copies of all access agreements obtained by the contractor been provided? (Appendix J)			X
54	Has a copy of this form been attached to the final report and are explanations for any missing or incomplete data been provided?	X		

**Site Activity Summary**

UST Permit #: 18856  
 Facility Name: Steady Simmons  
 County: Jasper  
 Field Personnel: J. Floyd, J. Phillips, P. Wylie, C. Hasnen



Sample ID	Sampled?	Date	Time	Screened Interval	Depth to Product (ft)	Depth to Water (ft)	Product Thickness (ft)	Initial Dissolved Oxygen (mg/l)	# Gals. Purged	Comments
MW-1R	Y	2/14/17	12:44	7-17	***	1.71	***	0.95	2.00	Odor
MW-2	Y	2/14/17	13:30	7-17	***	2.50	***	1.59	1.25	Odor
MW-3	Y	2/14/17	12:12	7-17	***	1.09	***	1.89	1.25	No Odor
MW-4	Y	2/14/17	11:37	7-17	***	0.80	***	4.74	1.25	No Odor
MW-5	Y	2/14/17	10:17	5-15	***	3.65	***	5.26	1.25	No Odor
MW-6	Y	2/14/17	10:31	5-15	***	3.71	***	3.07	1.00	No Odor
MW-7	Y	2/14/17	10:50	5-15	***	3.00	***	2.20	1.50	No Odor
MW-8	Y	2/14/17	11:12	5-15	***	3.18	***	0.79	1.50	Slight Sulfuric Odor
MW-9	Y	2/14/17	11:35	5-15	***	2.72	***	1.47	1.50	No Odor
MW-10	N	2/14/17	NS	5-15	***	NS	***	NS	NS	Not Sampled, Well submerged in large puddle of surface water
MW-11	Y	2/15/17	10:00	5-15	***	0.03	***	2.96	2.00	No Odor
MW-12	Y	2/14/17	13:40	5-15	***	0.02	***	2.80	1.50	No Odor
MW-13	Y	2/14/17	12:10	5-15	***	1.22	***	3.91	1.50	No Odor
MW-14	Y	2/14/17	12:50	5-15	***	2.16	***	3.74	1.50	No Odor
MW-15	Y	2/15/17	10:48	10-20	***	2.50	***	3.56	1.50	No Odor
									20.50	<b>TOTAL GALLONS PURGED</b>

**Site Activity Summary**

**UST Permit #:** 18856  
**Facility Name:** Steady Simmons  
**County:** Jasper  
**Field Personnel:** J. Floyd, J. Phillips, P. Wylie, C. Hasnen


  
 Midlands Environmental Consultants, Inc.  
 221 Dooley Road, Lexington, SC 29073  
 (803) 826-2043 Fax: 803-2048

Sample ID	Sampled?	Date	Time	Screened Interval	Depth to Product (ft)	Depth to Water (ft)	Product Thickness (ft)	Initial Dissolved Oxygen (mg/l)	# Gals. Purged	Comments
MW-16	Y	2/14/17	14:20	10-20	***	3.60	***	4.34	2.50	No Odor
MW-17	Y	2/14/17	10:45	4-14	***	1.80	***	6.01	1.50	No Odor
DW-1	Y	2/14/17	11:19	35-40	***	3.80	***	5.39	3.00	No Odor
DW-2	Y	2/14/17	11:46	35-40	***	5.04	***	6.34	2.50	No Odor
DW-3	Y	2/15/17	10:22	35-40	***	0.80	***	4.19	2.00	No Odor
DW-4	Y	2/14/17	13:17	33-38	***	12.46	***	4.02	2.00	No Odor
DW-5	Y	2/15/17	11:13	33-38	***	2.51	***	5.27	2.00	No Odor
DW-6	Y	2/14/17	14:45	31-36	***	3.69	***	6.42	2.00	No Odor
DW-7	Y	2/14/17	13:10	31-36	***	2.51	***	6.21	2.00	No Odor
DW-8	Y	2/14/17	11:12	35-40	***	11.58	***	3.99	2.00	No Odor
SW-1	Y	2/14/17	10:55	***	***	***	***	***	***	Collected from pond, See Figure
SW-2	N	2/14/17	11:00	***	***	***	***	***	***	Collected from pond, 16743 Grays Highway
SW-3	N	2/15/17	11:05	***	***	***	***	***	***	Collected from pond, See Figure
DUP-1	Y	2/14/17	12:12	***	***	***	***	***	***	Duplicate sampled of MW-3
DUP-2	Y	2/15/17	10:48	***	***	***	***	***	***	Duplicate sample fo MW-15
									21.50	<b>TOTAL GALLONS PURGED</b>

**Site Activity Summary**

UST Permit #: 18856  
 Facility Name: Steady Simmons  
 County: Jasper  
 Field Personnel: J. Floyd, J. Phillips, P. Wylie, C. Hasnen



Sample ID	Sampled?	Date	Time	Screened Interval	Depth to Product (ft)	Depth to Water (ft)	Product Thickness (ft)	Initial Dissolved Oxygen (mg/l)	# Gals. Purged	Comments
Field Blank	Y	2/14/17	14:40	***	***	***	***	***	***	Field Blank 2/14/2017
Field Blank 2	Y	2/15/17	11:20	***	***	***	***	***	***	Field Blank 2/15/2017
Trip Blank	Y	2/14/17	14:21	***	***	***	***	***	***	Trip Blank (Cooler #1)
Trip Blank 2	Y	2/15/17	11:21	***	***	***	***	***	***	Trip Blank (Cooler #2)
WSW-1	Y	2/15/17	9:50	***	***	***	***	***	***	Sample Taken From Spigot on Well, White Trailer on Onsite
WSW-2	Y	2/15/17	10:40	***	***	***	***	***	***	Sample Taken From Spigot on Font of House, 16589 Grays Highway, Property owner request results
WSW-3	Y	2/15/17	10:15	***	***	***	***	***	***	Sample Taken From Spigot in Front Yard, 16586 Grays Highway
WSW-4	Y	2/15/17	10:00	***	***	***	***	***	***	Sample Taken From Spigot in Front Yard, 16640 Grays Highway
WSW-5	Y	2/15/17	11:30	***	***	***	***	***	***	Sample collected from spigot near pump house, 16713 Grays Highway
WSW-6	N	2/15/17	NS	***	***	***	***	***	***	Not Operational, Onsite
WSW-7	Y	2/15/17	10:25	***	***	***	***	***	***	Sample collected from spigot behind shed, 16506 Grays Highway
WSW-8	N	2/15/17	NS	***	***	***	***	***	***	Not Operational/No Resident, 16713 Gray Highway
WSW-9	Y	2/15/17	11:00	***	***	***	***	***	***	Sample collected from spigot near well, 16743 Grays Highway
DUP WSW	Y	2/15/17	9:50	***	***	***	***	***	***	Duplicate Sample of WSW-1
Field Blank WSW	Y	2/15/17	11:40	***	***	***	***	***	***	Field Blank WSW
									0.00	<b>TOTAL GALLONS PURGED</b>

**Site Activity Summary**

UST Permit #: 18856  
 Facility Name: Steady Simmons  
 County: Jasper  
 Field Personnel: J. Floyd, J. Phillips, P. Wylie, C. Hasnen



Sample ID	Sampled?	Date	Time	Screened Interval	Depth to Product (ft)	Depth to Water (ft)	Product Thickness (ft)	Initial Dissolved Oxygen (mg/l)	# Gals. Purged	Comments
Trip Blank WSW	Y	2/15/17	11:41	***	***	***	***	***	***	Trip Blank WSW
									0.00	TOTAL GALLONS PURGED

**Underground Storage Tank Management Division Field Data Information Sheet – Low Flow Sampling**

Date:	2/14/2017	Site ID #:	18856	Site Name:	Steady Simmons	Field Personnel:	J. Floyd, J. Phillips, P. Wylie, C. Hansen					
County:	Jasper	Project Manager:	Minda Horosky	General Weather Conditions:	Clear	Ambient Air Temp (°F):	70					
<b>Quality Assurance</b>												
Meter Name	Serial #:	Calibration:										
YSI Pro1030 (pH, Specific Conductivity, Temp.)	15E101481	pH 4.0: Y or N	Y	pH 7.0: Y or N	Y	pH 10.0: Y or N	Y	S.C.: Y or N	Y			
YSI Pro20 (Dissolved Oxygen)	14H103096	Y or N	Y									
MicroTUTPW (Turbidity)	201301174	0.0 NTU: Y or N	Y	1.0 NTU: Y or N	Y	10.0 NTU: Y or N	Y					
<b>Well Information</b>												
Well ID:	MW-1	Well Diameter (ft.):	0.163		Method of Purging/Sample Collection:	Peristaltic Pump						
Sample Type: (i.e. MW, IW, RW, WSW)	MW	Conversion Factor (C): 1" well = 0.041, 2" well = 0.16, 4" well = 0.652			Screened Interval (ft.):	7-17		Total Well Depth (TWD) (ft.):	17			
Depth to Free Product (DFP) (ft.):	ND	Depth to Groundwater (DGW) (ft.):	1.71		Free Product Thickness (ft.):	Not Detected						
Length of water column (LWC = TWD - DGW) (ft.):	15.29	Total Milliliters Removed	7,570.82		Average Pumping Rate (ml/min)	315.45						
<b>Purging Data</b>												
TIME	Change	PH (s.u.)		Specific Conductivity (µS/cm)		Water Temperature (°C)		Dissolved Oxygen (mg/L)		Turbidity (NTU)		Depth to Water (BTOC)
		Reading	Change	Reading	Change	Reading	Change	Reading	Change	Reading	Change	
12:20	N/A	5.64	N/A	62.4	N/A	19.2	N/A	0.95	N/A	144.90	N/A	1.93
12:24	4.00	5.68	0.04	67.0	-7.4%	19.0	1.0%	0.53	-0.42	108.30	25.26%	2.07
12:28	8.00	5.70	0.02	67.2	-0.3%	19.1	-0.5%	0.47	-0.06	72.54	33.02%	2.15
12:32	12.00	5.71	0.01	67.5	-0.4%	18.7	2.1%	0.31	-0.16	64.80	10.67%	2.21
12:36	16.00	5.71	0.00	77.4	-14.7%	18.5	1.1%	0.54	0.23	65.62	-1.27%	2.26
12:40	20.00	5.72	0.01	73.6	4.9%	18.6	-0.5%	0.49	-0.05	66.27	-0.99%	2.28
12:44	24.00	5.72	0.00	71.0	3.5%	18.5	0.5%	0.53	0.04	69.31	-4.59%	2.30
<b>Sampling Data</b>												
Sampled By:	J. Floyd, J. Phillips, P. Wylie, C. Hansen		Sampling Time:	12:44	Duplicate: Y or N	N	If yes, Duplicate Time:	NA	Total Gallons Purged:	2.00		
Notes:	<p align="center">Odor</p> <p>_____</p> <p>_____</p> <p>_____</p>											

### Underground Storage Tank Management Division Field Data Information Sheet – Low Flow Sampling

Date:	2/14/2017	Site ID #:	18856	Site Name:	Steady Simmons	Field Personnel:	J. Floyd, J. Phillips, P. Wylie, C. Hansen					
County:	Jasper	Project Manager:	Minda Horonsky	General Weather Conditions:	Clear	Ambient Air Temp (°F):	70					
<b>Quality Assurance</b>												
Meter Name		Serial #:		Calibration:								
YSI Pro1030 (pH, Specific Conductivity, Temp.)		15E101481		pH 4.0: Y or N	Y	pH 7.0: Y or N	Y	pH 10.0: Y or N	Y	S.C.: Y or N	Y	
YSI Pro20 (Dissolved Oxygen)		14H103098		Y or N	Y							
MicroTP/TPW (Turbidity)		201301174		0.0 NTU: Y or N	Y	1.0 NTU: Y or N	Y	10.0 NTU: Y or N	Y			
<b>Well Information</b>												
Well ID:	MW-2	Well Diameter (ft.):	0.163		Method of Purging/Sample Collection:	Peristaltic Pump						
Sample Type: (i.e. MW, IW, RW, WSW)	MW	Conversion Factor (C): 1" well = 0.04ft, 2" well = 0.16, 4" well = 0.652			Screened Interval (ft.):	7-17		Total Well Depth (TWD) (ft.):	17			
Depth to Free Product (DFP) (ft.):	ND	Depth to Groundwater (DGW) (ft.):	2.50		Free Product Thickness (ft.):	Not Detected						
Length of water column (LWC = TWD - DGW) (ft.):	14.50	Total Milliliters Removed	4,731.77		Average Pumping Rate (ml/min)	315.45						
<b>Purging Data</b>												
TIME	Change	PH (s.u.)		Specific Conductivity (µS/cm)		Water Temperature (°C)		Dissolved Oxygen (mg/L)		Turbidity (NTU)		Depth to Water (BTOC)
		Reading	Change	Reading	Change	Reading	Change	Reading	Change	Reading	Change	
13-15	N/A	5.63	N/A	54.6	N/A	19.9	N/A	1.59	N/A	37.06	N/A	2.67
13-18	3.00	5.58	-0.05	54.1	0.9%	19.9	0.0%	0.61	-0.98	31.52	14.95%	2.75
13-21	6.00	5.57	-0.01	48.4	10.5%	20.2	-1.5%	0.44	-0.17	23.91	24.14%	2.84
13-24	9.00	5.57	0.00	48.6	-0.4%	19.9	1.5%	0.58	0.14	16.42	31.33%	2.91
13-27	12.00	5.57	0.00	48.7	-0.2%	20.0	-0.5%	0.49	-0.09	15.44	5.97%	2.95
13-30	15.00	5.72	0.15	48.5	0.4%	20.0	0.0%	0.51	0.02	15.36	0.52%	2.97
<b>Sampling Data</b>												
Sampled By:	J. Floyd, J. Phillips, P. Wylie, C. Hansen		Sampling Time:	13:30	Duplicate: Y or N	N	If yes, Duplicate Time:	NA	Total Gallons Purged:	1.25		
Notes:	<p style="text-align: center;">Odor</p> <hr/> <hr/> <hr/>											

### Underground Storage Tank Management Division Field Data Information Sheet – Low Flow Sampling

Date:	2/14/2017	Site ID #:	10556	Site Name:	Steady Simmons	Field Personnel:	J. Floyd, J. Phillips, P. Wylie, C. Hansen					
County:	Jasper	Project Manager:	Minda Horonsky	General Weather Conditions:	Clear	Ambient Air Temp (°F):	70					
<b>Quality Assurance</b>												
Meter Name	Serial #:	Calibration:										
YSI Pro1030 (pH, Specific Conductivity, Temp.)	15E101481	pH 4.0: Y or N	Y	pH 7.0: Y or N	Y	pH 10.0: Y or N	Y	S.C.: Y or N	Y			
YSI Pro20 (Dissolved Oxygen)	14H103098	Y or N	Y									
MicroTPV/TPW (Turbidity)	201301174	0.0 NTU: Y or N	Y	1.0 NTU: Y or N	Y	10.0 NTU: Y or N	Y					
<b>Well Information</b>												
Well ID:	MW-3	Well Diameter (ft.): Conversion Factor (C): 1" well = 0.041, 2" well = 0.16, 4" well = 0.652	0.163		Method of Purging/Sample Collection	Peristaltic Pump						
Sample Type: (i.e. MW, IW, RW, WSW)	MW	Screened Interval (ft.):	7-17		Total Well Depth (TWD) (ft.):	17						
Depth to Free Product (DFP) (ft.):	ND	Depth to Groundwater (DGW) (ft.):	1.09		Free Product Thickness (ft.):	Not Detected						
Length of water column (LWC = TWD - DGW) (ft.):	15.91	Total Milliliters Removed	4,731.77		Average Pumping Rate (ml/min)	215.08						
<b>Purging Data</b>												
TIME	Change	PH (s.u.)		Specific Conductivity (µS/cm)		Water Temperature (°C)		Dissolved Oxygen (mg/L)		Turbidity (NTU)		Depth to Water (BTC)
		Reading	Change	Reading	Change	Reading	Change	Reading	Change	Reading	Change	
11:50	N/A	5.34	N/A	32.6	N/A	16.8	N/A	1.89	N/A	146.30	N/A	1.28
11:53	3.00	5.12	-0.22	33.4	-2.5%	17.6	-4.8%	0.72	-1.17	287.00	-96.17%	1.36
11:56	6.00	5.10	-0.02	33.0	1.2%	17.7	-0.6%	1.87	1.15	226.40	21.11%	1.40
12:00	10.00	5.06	-0.04	33.3	-0.9%	18.2	-2.8%	0.53	-1.34	153.80	32.07%	1.43
12:04	14.00	5.05	-0.01	33.8	-1.5%	18.0	1.1%	0.59	0.06	48.75	68.30%	1.47
12:08	18.00	5.04	-0.01	33.5	0.9%	17.9	0.6%	0.56	-0.03	49.57	-1.68%	1.50
12:12	22.00	5.04	0.00	33.4	0.3%	17.8	0.6%	0.52	-0.04	47.21	4.76%	1.52
<b>Sampling Data</b>												
Sampled By:	J. Floyd, J. Phillips, P. Wylie, C. Hansen		Sampling Time:	12:12	Duplicate: Y or N	Y	If yes, Duplicate Time:	12:12	Total Gallons Purged:	1.25		
Notes:									No Odor			
									Duplicated as DUP-1			



### Underground Storage Tank Management Division Field Data Information Sheet – Low Flow Sampling

Date:	2/14/2017	Site ID #:	18856	Site Name:	Steady Simmons	Field Personnel:	J. Floyd, J. Phillips, P. Wylie, C. Hansen					
County:	Jasper	Project Manager:	Minda Horonsky	General Weather Conditions:	Clear	Ambient Air Temp (°F):	70					
<b>Quality Assurance</b>												
Meter Name		Serial #:		Calibration:								
YSI Pro1030 (pH, Specific Conductivity, Temp.)		15E101481		pH 4.0: Y or N	Y	pH 7.0: Y or N	Y	pH 10.0: Y or N	Y	S.C.: Y or N	Y	
YSI Pro20 (Dissolved Oxygen)		14H103098		Y or N	Y							
MicroTPI/TPW (Turbidity)		201301174		0.0 NTU: Y or N	Y	1.0 NTU: Y or N	Y	10.0 NTU: Y or N	Y			
<b>Well Information</b>												
Well ID:	MW-4	Well Diameter (ft.): Conversion Factor (C): 1" well = 0.041, 2" well = 0.16, 4" well = 0.652			0.163	Method of Purging/Sample Collection		Peristaltic Pump				
Sample Type: (i.e. MW, IW, RW, WSW)	MW	Screened Interval (ft.):			7-17	Total Well Depth (TWD) (ft.):		17				
Depth to Free Product (DFP) (ft.):	ND	Depth to Groundwater (DGW) (ft.):			0.80	Free Product Thickness (ft.):		Not Detected				
Length of water column (LWC = TWD - DGW) (ft.):	16.20	Total Milliliters Removed			4,731.77	Average Pumping Rate (ml/min)		236.59				
<b>Purging Data</b>												
TIME	Change	PH (s.u.)		Specific Conductivity (µS/cm)		Water Temperature (°C)		Dissolved Oxygen (mg/L)		Turbidity (NTU)		Depth to Water (BTWC)
		Reading	Change	Reading	Change	Reading	Change	Reading	Change	Reading	Change	
11:17	N/A	6.69	N/A	149.5	N/A	19.8	N/A	4.74	N/A	4.27	N/A	1.28
11:22	5.00	6.51	-0.18	151.7	-1.5%	19.3	2.5%	4.28	-0.46	5.40	-26.46%	1.36
11:27	10.00	6.49	-0.02	150.3	0.8%	19.4	-0.5%	4.20	-0.08	6.11	-13.15%	1.40
11:32	15.00	6.47	-0.02	149.7	0.4%	19.3	0.5%	4.15	-0.05	6.23	-1.96%	1.43
11:37	20.00	6.46	-0.01	149.5	0.1%	19.7	-2.1%	4.17	0.02	7.03	-12.84%	1.47
<b>Sampling Data</b>												
Sampled By:	J. Floyd, J. Phillips, P. Wylie, C. Hansen			Sampling Time:	11:37	Duplicate: Y or N	N	If yes, Duplicate Time:	N/A	Total Gallons Purged:	1.25	
Notes:												
No Odor												

### Underground Storage Tank Management Division Field Data Information Sheet – Low Flow Sampling

Date:	2/14/2017	Site ID #:	18856	Site Name:	Steady Simmons	Field Personnel:	J. Floyd, J. Phillips, P. Wylie, C. Hansen					
County:	Jasper	Project Manager:	Minda Horonsky	General Weather Conditions:	Clear	Ambient Air Temp (°F):	70					
<b>Quality Assurance</b>												
Meter Name		Serial #:		Calibration:								
YSI Pro1030 (pH, Specific Conductivity, Temp.)		15E101481		pH 4.0: Y or N	Y	pH 7.0: Y or N	Y	pH 10.0: Y or N	Y	S.C.: Y or N	Y	
YSI Pro20 (Dissolved Oxygen)		14H103098		Y or N	Y							
MicroTPTPW (Turbidity)		201301174		0.0 NTU: Y or N	Y	1.0 NTU: Y or N	Y	10.0 NTU: Y or N	Y			
<b>Well Information</b>												
Well ID:	MW-5	Well Diameter (ft.): Conversion Factor (C): 1" well = 0.041, 2" well = 0.16, 4" well = 0.652			0.163	Method of Purging/Sample Collection		Peristaltic Pump				
Sample Type: (i.e. MW, IW, RW, WSW)	MW	Screened Interval (ft.):			5-15	Total Well Depth (TWD) (ft.):		15				
Depth to Free Product (DFP) (ft.):	ND	Depth to Groundwater (DGW) (ft.):			3.65	Free Product Thickness (ft.):		Not Detected				
Length of water column (LWC = TWD – DGW) (ft.):	11.35	Total Milliliters Removed			4,731.77	Average Pumping Rate (ml/min)		262.88				
<b>Purging Data</b>												
TIME	Change	PH (s.u.)		Specific Conductivity (µS/cm)		Water Temperature (°C)		Dissolved Oxygen (mg/L)		Turbidity (NTU)		Depth to Water (BTOC)
		Reading	Change	Reading	Change	Reading	Change	Reading	Change	Reading	Change	
10:00	N/A	5.33	N/A	48.8	N/A	18.3	N/A	5.26	N/A	15.76	N/A	3.78
10:03	3.00	5.17	-0.16	41.4	11.5%	18.2	0.5%	4.88	-0.38	142.90	-806.73%	3.88
10:06	6.00	5.08	-0.09	39.0	5.8%	18.3	-0.5%	4.43	-0.45	178.30	-24.77%	3.94
10:09	9.00	5.05	-0.03	39.5	-1.3%	18.3	0.0%	4.10	-0.33	85.05	52.30%	3.99
10:12	12.00	5.00	-0.05	37.9	4.1%	18.4	-0.5%	4.29	0.19	21.04	75.26%	4.04
10:15	15.00	4.99	-0.01	36.6	3.4%	18.4	0.0%	4.65	0.36	20.45	2.80%	4.07
10:17	18.00	4.95	-0.04	35.6	2.7%	18.5	-0.5%	4.81	0.16	19.88	2.79%	4.11
<b>Sampling Data</b>												
Sampled By:	J. Floyd, J. Phillips, P. Wylie, C. Hansen			Sampling Time:	10:17	Duplicate: Y or N	N	If yes, Duplicate Time:	N/A	Total Gallons Purged:	1.25	
Notes:	No Odor											

### Underground Storage Tank Management Division Field Data Information Sheet – Low Flow Sampling

Date:	2/14/2017	Site ID #:	18856	Site Name:	Steady Simmons	Field Personnel:	J. Floyd, J. Phillips, P. Wylie, C. Hansen					
County:	Jasper	Project Manager:	Minda Horonsky	General Weather Conditions:	Clear	Ambient Air Temp (°F):	70					
<b>Quality Assurance</b>												
Meter Name		Serial #:		Calibration:								
YSI Pro1030 (pH, Specific Conductivity, Temp.)		15E101481		pH 4.0: Y or N	Y	pH 7.0: Y or N	Y	pH 10.0: Y or N	Y	S.C.: Y or N	Y	
YSI Pro20 (Dissolved Oxygen)		14H103098		Y or N	Y							
MicroTPV/TPW (Turbidity)		201301174		0.0 NTU: Y or N	Y	1.0 NTU: Y or N	Y	10.0 NTU: Y or N	Y			
<b>Well Information</b>												
Well ID:	MW-6	Well Diameter (ft.): Conversion Factor (C): 1" well = 0.041, 2" well = 0.16, 4" well = 0.652		0.163	Method of Purging/Sample Collection		Peristaltic Pump					
Sample Type: (i.e. MW, IW, RW, WSW)	MW	Screened interval (ft.):		5-15	Total Well Depth (TWD) (ft.):		15					
Depth to Free Product (DFP) (ft.):	ND	Depth to Groundwater (DGW) (ft.):		3.71	Free Product Thickness (ft.):		Not Detected					
Length of water column (LWC = TWD - DGW) (ft.):	11.29	Total Milliliters Removed		3,785.41	Average Pumping Rate (ml/min)		315.45					
<b>Purging Data</b>												
TIME	Change	PH (s.u.)		Specific Conductivity (µS/cm)		Water Temperature (°C)		Dissolved Oxygen (mg/L)		Turbidity (NTU)		Depth to Water (BTC)
		Reading	Change	Reading	Change	Reading	Change	Reading	Change	Reading	Change	
10:20	N/A	5.08	N/A	51.1	N/A	17.1	N/A	3.07	N/A	52.70	N/A	3.93
10:23	3.00	5.14	0.06	50.5	1.2%	17.0	0.6%	3.00	-0.07	43.90	16.70%	4.01
10:26	6.00	5.15	0.01	51.7	-2.4%	17.2	-1.2%	3.03	0.03	28.53	35.01%	4.09
10:29	8.00	5.14	-0.01	51.9	-0.4%	17.3	-0.6%	3.09	0.06	27.55	3.43%	4.15
10:31	12.00	5.14	0.00	51.7	0.4%	17.4	-0.6%	3.11	0.02	28.36	-2.94%	4.18
<b>Sampling Data</b>												
Sampled By:	J. Floyd, J. Phillips, P. Wylie, C. Hansen		Sampling Time:	10:31	Duplicate: Y or N	N	If yes, Duplicate Time:	N/A	Total Gallons Purged:	1.00		
Notes:												
No Odor												

### Underground Storage Tank Management Division Field Data Information Sheet – Low Flow Sampling

Date:	2/14/2017	Site ID #:	18556	Site Name:	Steady Simmons	Field Personnel:	J. Floyd, J. Phillips, P. Wylie, C. Hansen					
County:	Jasper	Project Manager:	Minda Horonsky	General Weather Conditions:	Clear	Ambient Air Temp (°F):	70					
<b>Quality Assurance</b>												
Meter Name		Serial #:		Calibration:								
YSI Pro1030 (pH, Specific Conductivity, Temp.)		15E101481		pH 4.0: Y or N	Y	pH 7.0: Y or N	Y	pH 10.0: Y or N	Y	S.C.: Y or N	Y	
YSI Pro20 (Dissolved Oxygen)		14H103098		Y or N		Y						
MicroTP/TPW (Turbidity)		201301174		0.0 NTU: Y or N	Y	1.0 NTU: Y or N	Y	10.0 NTU: Y or N	Y			
<b>Well Information</b>												
Well ID:	MW-7	Well Diameter (ft.): Conversion Factor (C): 1" well = 0.041, 2" well = 0.16, 4" well = 0.652			0.163	Method of Purging/Sample Collection			Peristaltic Pump			
Sample Type: (i.e. MW, IW, RW, WSW)	MW	Screened Interval (ft.):			5-15	Total Well Depth (TWD) (ft.):			15			
Depth to Free Product (DFP) (ft.):	ND	Depth to Groundwater (DGW) (ft.):			3.00	Free Product Thickness (ft.):			Not Detected			
Length of water column (LWC = TWD - DGW) (ft.):	12.00	Total Milliliters Removed			5,678.12	Average Pumping Rate (ml/min)		354.88				
<b>Purging Data</b>												
TIME	Change	PH (s.u.)		Specific Conductivity (µS/cm)		Water Temperature (°C)		Dissolved Oxygen (mg/L)		Turbidity (NTU)		Depth to Water (BTC)
		Reading	Change	Reading	Change	Reading	Change	Reading	Change	Reading	Change	
10:35	N/A	4.94	N/A	45.7	N/A	16.4	N/A	2.20	N/A	527.40	N/A	3.16
10:37	3.00	4.92	-0.02	45.6	0.2%	16.1	1.8%	1.91	-0.29	178.70	66.12%	3.28
10:40	6.00	4.91	-0.01	45.3	0.7%	15.9	1.2%	1.82	-0.09	75.12	57.96%	3.37
10:42	8.00	4.90	-0.01	44.7	1.3%	15.9	0.0%	1.97	0.15	19.54	73.99%	3.42
10:45	11.00	4.89	-0.01	42.9	4.0%	16.1	-1.3%	2.06	0.09	18.76	3.99%	3.45
10:47	13.00	4.90	0.01	43.2	-0.7%	16.2	-0.6%	2.02	-0.04	17.98	4.16%	3.47
10:50	16.00	4.90	0.00	43.6	-0.9%	16.2	0.0%	1.99	-0.03	16.25	-1.50%	3.48
<b>Sampling Data</b>												
Sampled By:	J. Floyd, J. Phillips, P. Wylie, C. Hansen			Sampling Time:	10:50	Duplicate: Y or N	N	If yes, Duplicate Time:	N/A	Total Gallons Purged:	1.50	
Notes:												
No Odor												

### Underground Storage Tank Management Division Field Data Information Sheet – Low Flow Sampling

Date:	2/14/2017	Site ID #:	10556	Site Name:	Steady Simmons	Field Personnel:	J. Floyd, J. Phillips, P. Wylie, C. Hansen					
County:	Jasper	Project Manager:	Minda Horonsky	General Weather Conditions:	Clear	Ambient Air Temp (°F):	70					
<b>Quality Assurance</b>												
Meter Name	Serial #:	Calibration:										
YSI Pro1030 (pH, Specific Conductivity, Temp.)	15E101481	pH 4.0: Y or N	Y	pH 7.0: Y or N	Y	pH 10.0: Y or N	Y	S.C.: Y or N	Y			
YSI Pro20 (Dissolved Oxygen)	14H103098	Y or N	Y									
MicroTP/TPW (Turbidity)	201301174	0.0 NTU: Y or N	Y	1.0 NTU: Y or N	Y	10.0 NTU: Y or N	Y					
<b>Well Information</b>												
Well ID:	MW-6	Well Diameter (ft.): Conversion Factor (C): 1" well = 0.041, 2" well = 0.16, 4" well = 0.652	0.163		Method of Purging/Sample Collection	Peristaltic Pump						
Sample Type: (i.e. MW, IW, RW, WSW)	MW	Screened Interval (ft.):	5-15		Total Well Depth (TWD) (ft.):	15						
Depth to Free Product (DFP) (ft.):	ND	Depth to Groundwater (DGW) (ft.):	3.18		Free Product Thickness (ft.):	Not Detected						
Length of water column (LWC = TWD - DGW) (ft.):	11.82	Total Milliliters Removed	5,678.12		Average Pumping Rate (ml/min)	334.01						
<b>Purging Data</b>												
TIME	Change	PH (u.u.)		Specific Conductivity (µS/cm)		Water Temperature (°C)		Dissolved Oxygen (mg/L)		Turbidity (NTU)		Depth to Water (BTC)
		Reading	Change	Reading	Change	Reading	Change	Reading	Change	Reading	Change	
10:55	N/A	4.91	N/A	83.8	N/A	17.8	N/A	0.79	N/A	132.50	N/A	3.31
10:59	4.00	4.96	0.05	86.6	-3.3%	17.0	4.5%	0.86	0.07	67.20	49.28%	3.39
11:03	8.00	5.12	0.16	94.4	-9.0%	16.8	1.2%	0.92	0.06	45.19	32.75%	3.47
11:07	12.00	5.18	0.06	94.8	-0.4%	16.8	0.0%	0.75	-0.17	33.48	25.91%	3.55
11:10	15.00	5.24	0.06	91.9	3.1%	17.0	-1.2%	0.82	0.07	32.76	2.15%	3.60
11:12	17.00	5.21	-0.03	92.5	-0.7%	17.1	-0.6%	0.86	0.04	32.56	0.61%	3.62
<b>Sampling Data</b>												
Sampled By:	J. Floyd, J. Phillips, P. Wylie, C. Hansen		Sampling Time:	11:12	Duplicate: Y or N	N	If yes, Duplicate Time:	N/A	Total Gallons Purged:	1.50		
Notes:	Slight Sulfuric Odor											

### Underground Storage Tank Management Division Field Data Information Sheet – Low Flow Sampling

Date:	2/14/2017	Site ID #:	18856	Site Name:	Steady Simmons	Field Personnel:	J. Floyd, J. Phillips, P. Wylie, C. Hansen					
County:	Jasper	Project Manager:	Minda Horonsky	General Weather Conditions:	Clear	Ambient Air Temp (°F):	70					
<b>Quality Assurance</b>												
Meter Name		Serial #:		Calibration:								
YSI Pro1030 (pH, Specific Conductivity, Temp.)		15E101481		pH 4.0: Y or N	Y	pH 7.0: Y or N	Y	pH 10.0: Y or N	Y	S.C.: Y or N	Y	
YSI Pro20 (Dissolved Oxygen)		14H103098		Y or N	Y							
MicroTPV/TPW (Turbidity)		201301174		0.0 NTU: Y or N	Y	1.0 NTU: Y or N	Y	10.0 NTU: Y or N	Y			
<b>Well Information</b>												
Well ID:	MW-9	Well Diameter (ft.): Conversion Factor (C): 1" well = 0.041, 2" well = 0.16, 4" well = 0.652		0.163		Method of Purging/Sample Collection		Peristaltic Pump				
Sample Type: (i.e. MW, IW, RW, WSW)	MW	Screened Interval (ft.):		5-15		Total Well Depth (TWD) (ft.):		15				
Depth to Free Product (DFP) (ft.):	ND	Depth to Groundwater (DGW) (ft.):		2.72		Free Product Thickness (ft.):		Not Detected				
Length of water column (LWC = TWD - DGW) (ft.):	12.28	Total Milliliters Removed		5,678.12		Average Pumping Rate (ml/min)		283.91				
<b>Purging Data</b>												
TIME	Change	PH (s.u.)		Specific Conductivity (µS/cm)		Water Temperature (°C)		Dissolved Oxygen (mg/L)		Turbidity (NTU)		Depth to Water (BTC)
		Reading	Change	Reading	Change	Reading	Change	Reading	Change	Reading	Change	
11:15	N/A	5.12	N/A	72.6	N/A	17.4	N/A	1.47	N/A	131.80	N/A	2.88
11:20	5.00	5.04	-0.08	73.1	-0.7%	16.8	3.4%	1.85	0.38	64.20	51.29%	2.96
11:25	10.00	4.99	-0.05	71.6	2.1%	16.7	0.6%	1.52	-0.33	40.71	36.59%	3.05
11:30	15.00	4.98	-0.01	70.5	1.5%	16.7	0.0%	1.63	0.11	38.92	4.40%	3.11
11:35	20.00	4.98	0.00	70.8	-0.4%	16.7	0.0%	1.65	0.02	39.54	-1.59%	3.14
<b>Sampling Data</b>												
Sampled By:	J. Floyd, J. Phillips, P. Wylie, C. Hansen		Sampling Time:	11:35	Duplicate: Y or N	N	If yes, Duplicate Time:	N/A	Total Gallons Purged:	1.50		
Notes:												
No Odor												

### Underground Storage Tank Management Division Field Data Information Sheet – Low Flow Sampling

Date:	2/14/2017	Site ID #:	18856	Site Name:	Steady Simmons	Field Personnel:	J. Floyd, J. Phillips, P. Wylie, C. Hansen					
County:	Jasper	Project Manager:	Minda Horosky	General Weather Conditions:	Clear	Ambient Air Temp (°F):	70					
<b>Quality Assurance</b>												
Meter Name		Serial #:		Calibration:								
YSI Pro1030 (pH, Specific Conductivity, Temp.)		15E101481		pH 4.0: Y or N	Y	pH 7.0: Y or N	Y	pH 10.0: Y or N	Y	S.C.: Y or N	Y	
YSI Pro20 (Dissolved Oxygen)		14H103098		Y or N		Y						
MicroTPW/TPW (Turbidity)		201301174		0.0 NTU: Y or N	Y	1.0 NTU: Y or N	Y	10.0 NTU: Y or N	Y			
<b>Well Information</b>												
Well ID:	MW-10	Well Diameter (ft.): Conversion Factor (C): 1" well = 0.041, 2" well = 0.16, 4" well = 0.652			0.163	Method of Purging/Sample Collection		Peristaltic Pump				
Sample Type: (i.e. MW, IW, RW, WSW)	MW	Screened Interval (ft.):			5-15	Total Well Depth (TWD) (ft.):		15				
Depth to Free Product (DFP) (ft.):	ND	Depth to Groundwater (DGW) (ft.):			NS	Free Product Thickness (ft.):		Not Detected				
Length of water column (LWC = TWD - DGW) (ft.):	#VALUE!	Total Milliliters Removed			#VALUE!	Average Pumping Rate (ml/min)		#VALUE!				
<b>Purging Data</b>												
TIME	Change	PH (s.u.)		Specific Conductivity (µS/cm)		Water Temperature (°C)		Dissolved Oxygen (mg/L)		Turbidity (NTU)		Depth to Water (BTC)
		Reading	Change	Reading	Change	Reading	Change	Reading	Change	Reading	Change	
<b>Sampling Data</b>												
Sampled By:	J. Floyd, J. Phillips, P. Wylie, C. Hansen		Sampling Time:	NS	Duplicate: Y or N	N	If yes, Duplicate Time:	N/A	Total Gallons Purged:	NS		
Notes:												
Not Sampled, Well located in large water puddle												

### Underground Storage Tank Management Division Field Data Information Sheet – Low Flow Sampling

Date:	2/15/2017	Site ID #:	18856	Site Name:	Steady Simmons	Field Personnel:	J. Floyd, J. Phillips, P. Wylie, C. Hansen					
County:	Jasper	Project Manager:	Minda Horosky	General Weather Conditions:	Clear	Ambient Air Temp (°F):	70					
Quality Assurance												
Meter Name	Serial #:	Calibration:										
YSI Pro1030 (pH, Specific Conductivity, Temp.)	15E101481	pH 4.0: Y or N	Y	pH 7.0: Y or N	Y	pH 10.0: Y or N	Y	S.C.: Y or N	Y			
YSI Pro20 (Dissolved Oxygen)	14H103098	Y or N	Y									
MicroTPVTPW (Turbidity)	201301174	0.0 NTU: Y or N	Y	1.0 NTU: Y or N	Y	10.0 NTU: Y or N	Y					
Well Information												
Well ID:	MW-11	Well Diameter (ft.):	Conversion Factor (C): 1" well = 0.041, 2" well = 0.16, 4" well = 0.652		0.163	Method of Purging/Sample Collection	Peristaltic Pump					
Sample Type: (i.e. MW, IW, RW, WSW)	MW	Screened interval (ft.):			5-15	Total Well Depth (TWD) (ft.):	15					
Depth to Free Product (DFP) (ft.):	ND	Depth to Groundwater (DGW) (ft.):			0.03	Free Product Thickness (ft.):	Not Detected					
Length of water column (LWC = TWD - DGW) (ft.):	14.97	Total Milliliters Removed			7,570.82	Average Pumping Rate (ml/min)	252.36					
Purging Data												
TIME	Change	PH (s.u.)		Specific Conductivity (µS/cm)		Water Temperature (°C)		Dissolved Oxygen (mg/L)		Turbidity (NTU)		Depth to Water (BTC)
		Reading	Change	Reading	Change	Reading	Change	Reading	Change	Reading	Change	
9:30	N/A	5.91	N/A	70.8	N/A	17.7	N/A	2.96	N/A	43.17	N/A	2.88
9:40	10.00	5.88	-0.03	148.8	-107.3%	17.6	0.6%	2.77	-0.19	15.14	64.93%	2.96
9:45	15.00	5.91	0.03	144.3	1.7%	18.5	-5.1%	2.38	-0.39	9.14	39.63%	3.05
9:50	20.00	5.90	-0.01	141.9	1.7%	18.6	-0.5%	2.30	-0.08	9.04	1.09%	3.11
9:55	25.00	5.90	0.00	140.5	1.0%	18.7	-0.5%	2.25	-0.05	8.53	5.64%	3.14
10:00	30.00	5.89	-0.01	140.1	0.3%	18.8	-0.5%	2.29	0.04	8.50	0.35%	
Sampling Data												
Sampled By:	J. Floyd, J. Phillips, P. Wylie, C. Hansen		Sampling Time:	10:00	Duplicate: Y or N	N	If yes, Duplicate Time:	N/A	Total Gallons Purged:	2.00		
Notes:												
No Odor												



### Underground Storage Tank Management Division Field Data Information Sheet – Low Flow Sampling

Date:	2/14/2017	Site ID #:	18856	Site Name:	Steady Simmons	Field Personnel:	J. Floyd, J. Phillips, P. Wylie, C. Hansen					
County:	Jasper	Project Manager:	Minda Horonsky	General Weather Conditions:	Clear	Ambient Air Temp (°F):	70					
<b>Quality Assurance</b>												
Meter Name		Serial #:		Calibration:								
YSI Pro1030 (pH, Specific Conductivity, Temp.)		15E101481		pH 4.0: Y or N	Y	pH 7.0: Y or N	Y	pH 10.0: Y or N	Y	S.C.: Y or N	Y	
YSI Pro20 (Dissolved Oxygen)		14H103098		Y or N	Y							
MicroTPW (Turbidity)		201301174		0.0 NTU: Y or N	Y	1.0 NTU: Y or N	Y	10.0 NTU: Y or N	Y			
<b>Well Information</b>												
Well ID:	MW-12	Well Diameter (ft.): Conversion Factor (C): 1" well = 0.041, 2" well = 0.16, 4" well = 0.652			0.163	Method of Purging/Sample Collection		Peristaltic Pump				
Sample Type: (i.e. MW, IW, RW, WSW)	MW	Screened Interval (ft.):			5-15	Total Well Depth (TWD) (ft.):		15				
Depth to Free Product (DFP) (ft.):	ND	Depth to Groundwater (DGW) (ft.):			0.02	Free Product Thickness (ft.):		Not Detected				
Length of water column (LWC = TWD - DGW) (ft.):	14.98	Total Milliliters Removed			5,678.12	Average Pumping Rate (ml/min)		263.91				
<b>Purging Data</b>												
TIME	Change	PH (s.u.)		Specific Conductivity (µS/cm)		Water Temperature (°C)		Dissolved Oxygen (mg/L)		Turbidity (NTU)		Depth to Water (BTOC)
		Reading	Change	Reading	Change	Reading	Change	Reading	Change	Reading	Change	
13:20	N/A	6.72	N/A	109.3	N/A	20.0	N/A	2.80	N/A	8.47	N/A	0.38
13:25	5.00	6.69	-0.03	100.1	8.4%	18.3	8.5%	3.34	0.54	7.08	5.70%	0.54
13:30	10.00	6.62	-0.07	98.5	1.6%	18.6	-1.6%	3.15	-0.19	9.04	-13.28%	0.89
13:35	15.00	6.60	-0.02	98.1	0.4%	18.9	-1.6%	3.07	-0.08	8.14	9.96%	1.12
13:40	20.00	6.58	-0.02	97.5	0.6%	19.0	-0.5%	3.11	0.04	8.53	-4.79%	1.46
<b>Sampling Data</b>												
Sampled By:	J. Floyd, J. Phillips, P. Wylie, C. Hansen			Sampling Time:	13:40	Duplicate: Y or N	N	If yes, Duplicate Time:	N/A	Total Gallons Purged:	1.50	
Notes:	No Odor											

### Underground Storage Tank Management Division Field Data Information Sheet – Low Flow Sampling

Date:	2/14/2017	Site ID #:	18856	Site Name:	Steady Simmons	Field Personnel:	J. Floyd, J. Phillips, P. Wylie, C. Hansen												
County:	Jasper	Project Manager:	Minda Horonsky	General Weather Conditions:	Clear	Ambient Air Temp (°F):	70												
<b>Quality Assurance</b>																			
Meter Name		Serial #:		Calibration:															
YSI Pro1030 (pH, Specific Conductivity, Temp.)		15E101481		pH 4.0: Y or N	Y	pH 7.0: Y or N	Y	pH 10.0: Y or N	Y	S.C.: Y or N	Y								
YSI Pro20 (Dissolved Oxygen)		14H103098		Y or N	Y														
MicroTPWTPW (Turbidity)		201301174		0.0 NTU: Y or N	Y	1.0 NTU: Y or N	Y	10.0 NTU: Y or N	Y										
<b>Well Information</b>																			
Well ID:		MW-13		Well Diameter (ft.): Conversion Factor (C): 1" well = 0.04f, 2" well = 0.16, 4" well = 0.652		0.163		Method of Purging/Sample Collection		Peristaltic Pump									
Sample Type: (i.e. MW, IW, RW, WSW)		MW		Screened Interval (ft.):		5-15		Total Well Depth (TWD) (ft.):		15									
Depth to Free Product (DFP) (ft.):		ND		Depth to Groundwater (DGW) (ft.):		1.22		Free Product Thickness (ft.):		Not Detected									
Length of water column (LWC = TWD - DGW) (ft.):		13.78		Total Milliliters Removed		5,678.12		Average Pumping Rate (ml/min)		283.91									
<b>Purging Data</b>																			
TIME	Change	PH (s.u.)		Specific Conductivity (µS/cm)		Water Temperature (°C)		Dissolved Oxygen (mg/L)		Turbidity (NTU)		Depth to Water (BTC)							
		Reading	Change	Reading	Change	Reading	Change	Reading	Change	Reading	Change								
11:45	N/A	6.55	N/A	147.5	N/A	20.0	N/A	3.91	N/A	5.67	N/A	1.30							
11:55	5.00	6.54	-0.01	149.6	-1.2%	19.6	2.0%	3.36	-0.55	7.02	-23.81%	1.54							
12:00	10.00	6.50	-0.04	147.1	1.7%	19.6	0.0%	3.54	0.18	9.84	-40.17%	1.76							
12:05	15.00	6.51	0.01	146.5	0.4%	19.7	-0.5%	3.49	-0.05	8.62	12.40%	2.02							
12:10	20.00	6.50	-0.01	148.4	0.1%	19.7	0.0%	3.40	-0.09	8.17	5.22%	2.21							
<b>Sampling Data</b>																			
Sampled By:		J. Floyd, J. Phillips, P. Wylie, C. Hansen		Sampling Time:		12:10		Duplicate: Y or N		N		If yes, Duplicate Time:		N/A		Total Gallons Purged:		1.50	
Notes:									No Odor										

### Underground Storage Tank Management Division Field Data Information Sheet – Low Flow Sampling

Date:	2/14/2017	Site ID #:	18856	Site Name:	Steady Simmons	Field Personnel:	J. Floyd, J. Phillips, P. Wylie, C. Hansen					
County:	Jasper	Project Manager:	Minda Horonsky	General Weather Conditions:	Clear	Ambient Air Temp (°F):	70					
<b>Quality Assurance</b>												
Meter Name		Serial #:		Calibration:								
YSI Pro1030 (pH, Specific Conductivity, Temp.)		15E101481		pH 4.0: Y or N	Y	pH 7.0: Y or N	Y	pH 10.0: Y or N	Y	S.C.: Y or N	Y	
YSI Pro20 (Dissolved Oxygen)		14H103098		Y or N		Y						
MicroTPV/TPW (Turbidity)		201301174		0.0 NTU: Y or N	Y	1.0 NTU: Y or N	Y	10.0 NTU: Y or N	Y			
<b>Well Information</b>												
Well ID:	MW-14	Well Diameter (ft.): Conversion Factor (C): 1" well = 0.041, 2" well = 0.16, 4" well = 0.652			0.163		Method of Purging/Sample Collection		Peristaltic Pump			
Sample Type: (i.e. MW, IW, RW, WSW)	MW	Screened Interval (ft.):			5-15		Total Well Depth (TWD) (ft.):		15			
Depth to Free Product (DFP) (ft.):	ND	Depth to Groundwater (DGW) (ft.):			2.16		Free Product Thickness (ft.):		Not Detected			
Length of water column (LWC = TWD - DGW) (ft.):	12.84	Total Milliliters Removed			5,678.12		Average Pumping Rate (ml/min)		283.91			
<b>Purging Data</b>												
TIME	Change	PH (s.u.)		Specific Conductivity (µS/cm)		Water Temperature (°C)		Dissolved Oxygen (mg/L)		Turbidity (NTU)		Depth to Water (BTC)
		Reading	Change	Reading	Change	Reading	Change	Reading	Change	Reading	Change	
12:30	N/A	6.72	N/A	158.9	N/A	21.6	N/A	3.74	N/A	16.73	N/A	2.31
12:38	8.00	6.83	0.11	158.0	0.6%	21.1	2.3%	3.77	0.03	7.02	54.45%	2.58
12:42	12.00	6.85	0.02	157.2	0.5%	21.1	0.0%	3.80	0.03	6.59	13.52%	2.74
12:50	20.00	6.86	0.01	156.9	0.2%	21.1	0.0%	3.77	-0.03	6.82	-3.49%	2.88
<b>Sampling Data</b>												
Sampled By:	J. Floyd, J. Phillips, P. Wylie, C. Hansen		Sampling Time:	12:50	Duplicate: Y or N	N	If yes, Duplicate Time:	N/A	Total Gallons Purged:	1.50		
Notes:												
No Odor												

### Underground Storage Tank Management Division Field Data Information Sheet – Low Flow Sampling

Date:	2/15/2017	Site ID #:	10556	Site Name:	Steady Simmons	Field Personnel:	J. Floyd, J. Phillips, P. Wylie, C. Hansen					
County:	Jasper	Project Manager:	Minda Horonaky	General Weather Conditions:	Clear	Ambient Air Temp (°F):	70					
<b>Quality Assurance</b>												
Meter Name		Serial #:		Calibration:								
YSI Pro1030 (pH, Specific Conductivity, Temp.)		15E101481		pH 4.0: Y or N	Y	pH 7.0: Y or N	Y	pH 10.0: Y or N	Y	S.C.: Y or N	Y	
YSI Pro20 (Dissolved Oxygen)		14H103098		Y or N	Y							
MicroTPH/TPW (Turbidity)		201301174		0.0 NTU: Y or N	Y	1.0 NTU: Y or N	Y	10.0 NTU: Y or N	Y			
<b>Well Information</b>												
Well ID:	MW-15	Well Diameter (ft.): Conversion Factor (C): 1" well = 0.041, 2" well = 0.16, 4" well = 0.652		0.163		Method of Purging/Sample Collection			Peristaltic Pump			
Sample Type: (i.e. MW, IW, RW, WSW)	MW	Screened Interval (ft.):		10-20		Total Well Depth (TWD) (ft.):		20				
Depth to Free Product (DFP) (ft.):	ND	Depth to Groundwater (DGW) (ft.):		2.50		Free Product Thickness (ft.):		Not Detected				
Length of water column (LWC = TWD – DGW) (ft.):	17.50	Total Milliliters Removed		5,678.12		Average Pumping Rate (ml/min)		315.45				
<b>Purging Data</b>												
TIME	Change	PH (s.u.)		Specific Conductivity (µS/cm)		Water Temperature (°C)		Dissolved Oxygen (mg/L)		Turbidity (NTU)		Depth to Water (BTC)
		Reading	Change	Reading	Change	Reading	Change	Reading	Change	Reading	Change	
10:30	N/A	6.19	N/A	228.4	N/A	20.6	N/A	3.56	N/A	14.03	N/A	2.75
10:36	5.00	6.17	-0.02	408.2	-78.7%	20.9	-1.5%	3.92	0.36	8.17	41.77%	3.01
10:40	10.00	6.15	-0.02	410.3	-0.5%	20.9	0.0%	3.95	0.03	7.63	6.61%	3.22
10:45	15.00	6.14	-0.01	409.6	0.2%	21.0	-0.5%	3.97	0.02	7.45	2.36%	3.48
10:48	18.00	6.14	0.00	408.3	0.3%	21.0	0.0%	3.91	-0.06	8.12	-8.99%	3.61
<b>Sampling Data</b>												
Sampled By:	J. Floyd, J. Phillips, P. Wylie, C. Hansen		Sampling Time:	10:48	Duplicate: Y or N	Y	If yes, Duplicate Time:	10:48	Total Gallons Purged:	1.50		
Notes:												
No Odor												
Duplicated as DUP-2												

### Underground Storage Tank Management Division Field Data Information Sheet – Low Flow Sampling

Date:	2/14/2017	Site ID #:	18856	Site Name:	Steady Simmons	Field Personnel:	J. Floyd, J. Phillips, P. Wylie, C. Hansen					
County:	Jasper	Project Manager:	Minda Horonsky	General Weather Conditions:	Clear	Ambient Air Temp (°F):	70					
<b>Quality Assurance</b>												
Meter Name		Serial #:		Calibration:								
YSI Pro1030 (pH, Specific Conductivity, Temp.)		15E101481		pH 4.0: Y or N	Y	pH 7.0: Y or N	Y	pH 10.0: Y or N	Y	S.C.: Y or N	Y	
YSI Pro30 (Dissolved Oxygen)		14H103098		Y or N		Y						
MicroTPVTPW (Turbidity)		201301174		0.0 NTU: Y or N	Y	1.0 NTU: Y or N	Y	10.0 NTU: Y or N	Y			
<b>Well Information</b>												
Well ID:	MW-16	Well Diameter (ft.): Conversion Factor (C): 1" well = 0.041, 2" well = 0.16, 4" well = 0.652			0.163		Method of Purging/Sample Collection		Peristaltic Pump			
Sample Type: (i.e. MW, RW, WSW)	MW	Screened Interval (ft.):			10-20		Total Well Depth (TWD) (ft.):		20			
Depth to Free Product (DFP) (ft.):	ND	Depth to Groundwater (DGW) (ft.):			3.60		Free Product Thickness (ft.):		Not Detected			
Length of water column (LWC = TWD - DGW) (ft.):	16.40	Total Milliliters Removed			9,463.53		Average Pumping Rate (ml/min)		236.59			
<b>Purging Data</b>												
TIME	Change	PH (n.u.)		Specific Conductivity (µS/cm)		Water Temperature (°C)		Dissolved Oxygen (mg/L)		Turbidity (NTU)		Depth to Water (BTC)
		Reading	Change	Reading	Change	Reading	Change	Reading	Change	Reading	Change	
13:40	N/A	5.39	N/A	65.5	N/A	19.7	N/A	4.34	N/A	316.00	N/A	3.66
13:43	3.00	5.22	-0.17	69.9	-6.7%	19.4	1.5%	4.72	0.38	384.40	-21.65%	3.98
13:48	8.00	5.21	-0.01	65.7	6.0%	18.9	2.6%	5.02	0.30	175.80	54.27%	4.11
13:55	15.00	5.24	0.03	59.9	8.8%	18.4	2.6%	4.59	-0.43	72.13	58.97%	4.13
14:05	25.00	5.31	0.07	56.2	6.2%	18.6	-1.1%	4.68	0.09	71.54	0.82%	4.22
14:12	32.00	5.27	-0.04	57.5	-2.3%	18.7	-0.5%	4.64	-0.04	72.55	-1.41%	4.31
14:20	40.00	5.25	-0.02	55.9	2.8%	18.7	0.0%	4.63	-0.01	70.45	2.89%	4.42
<b>Sampling Data</b>												
Sampled By:	J. Floyd, J. Phillips, P. Wylie, C. Hansen			Sampling Time:	14:20	Duplicate: Y or N	N	If yes, Duplicate Time:	N/A	Total Gallons Purged:	2.50	
Notes:												
No Odor												

### Underground Storage Tank Management Division Field Data Information Sheet – Low Flow Sampling

Date:	2/14/2017	Site ID #:	18856	Site Name:	Steady Simmons	Field Personnel:	J. Floyd, J. Phillips, P. Wylie, C. Hansen					
County:	Jasper	Project Manager:	Minda Horonsky	General Weather Conditions:	Clear	Ambient Air Temp (°F):	70					
<b>Quality Assurance</b>												
Meter Name		Serial #:		Calibration:								
YSI Pro1030 (pH, Specific Conductivity, Temp.)		15E101461		pH 4.0: Y or N	Y	pH 7.0: Y or N	Y	pH 10.0: Y or N	Y	S.C.: Y or N	Y	
YSI Pro20 (Dissolved Oxygen)		14H103098		Y or N	Y							
MicroTPV/TPW (Turbidity)		201301174		0.0 NTU: Y or N	Y	1.0 NTU: Y or N	Y	10.0 NTU: Y or N	Y			
<b>Well Information</b>												
Well ID:	MW-16	Well Diameter (ft.): Conversion Factor (C): 1" well = 0.041, 2" well = 0.16, 4" well = 0.652		0.163	Method of Purging/Sample Collection		Peristaltic Pump					
Sample Type: (i.e. MW, IW, RW, WSW)	MW	Screened Interval (ft.):		4-14	Total Well Depth (TWD) (ft.):		14					
Depth to Free Product (DFP) (ft.):	ND	Depth to Groundwater (DGW) (ft.):		1.80	Free Product Thickness (ft.):		Not Detected					
Length of water column (LWC = TWD - DGW) (ft.):	12.20	Total Milliliters Removed		5,678.12	Average Pumping Rate (ml/min)		378.54					
<b>Purging Data</b>												
TIME	Change	PH (s.u.)		Specific Conductivity (µS/cm)		Water Temperature (°C)		Dissolved Oxygen (mg/L)		Turbidity (NTU)		Depth to Water (BTOC)
		Reading	Change	Reading	Change	Reading	Change	Reading	Change	Reading	Change	
10:30	N/A	6.53	N/A	60.7	N/A	16.7	N/A	6.01	N/A	9.75	N/A	1.84
10:35	5.00	5.26	-1.27	59.1	2.6%	17.1	-2.4%	5.35	-0.66	6.25	35.90%	2.01
10:38	8.00	6.15	0.89	60.2	-1.9%	17.3	-1.2%	5.30	-0.05	6.27	-0.32%	2.23
10:42	12.00	6.13	-0.02	61.8	-2.7%	17.5	-1.2%	5.32	0.02	6.34	-1.12%	2.49
10:45	15.00	6.12	-0.01	60.9	1.5%	17.7	-1.1%	5.25	-0.07	7.01	-10.57%	2.73
<b>Sampling Data</b>												
Sampled By:	J. Floyd, J. Phillips, P. Wylie, C. Hansen		Sampling Time:	10:45	Duplicate: Y or N	N	If yes, Duplicate Time:	N/A	Total Gallons Purged:	1.50		
Notes:												
No Odor												

### Underground Storage Tank Management Division Field Data Information Sheet – Low Flow Sampling

Date:	2/14/2017	Site ID #:	18856	Site Name:	Steady Simmons	Field Personnel:	J. Floyd, J. Phillips, P. Wylie, C. Hansen					
County:	Jasper	Project Manager:	Minda Horonsky	General Weather Conditions:	Clear	Ambient Air Temp (°F):	70					
<b>Quality Assurance</b>												
Meter Name		Serial #:		Calibration:								
YSI Pro1030 (pH, Specific Conductivity, Temp.)		15E101481		pH 4.0: Y or N	Y	pH 7.0: Y or N	Y	pH 10.0: Y or N	Y	S.C.: Y or N	Y	
YSI Pro20 (Dissolved Oxygen)		14H103098		Y or N	Y							
MicroTPW/TPW (Turbidity)		201301174		0.0 NTU: Y or N	Y	1.0 NTU: Y or N	Y	10.0 NTU: Y or N	Y			
<b>Well Information</b>												
Well ID:	DW-1	Well Diameter (ft.): Conversion Factor (C): 1" well = 0.041, 2" well = 0.16, 4" well = 0.652		0.163	Method of Purging/Sample Collection				Submersible Pump w/ Low Flow Controller			
Sample Type: (i.e. MW, IW, RW, WSW)	MW	Screened Interval (ft.):		35-40	Total Well Depth (TWD) (ft.):		40					
Depth to Free Product (DFP) (ft.):	ND	Depth to Groundwater (DGW) (ft.):		3.80	Free Product Thickness (ft.):		Not Detected					
Length of water column (LWC = TWD – DGW) (ft.):	36.20	Total Milliliters Removed		11,356.24	Average Pumping Rate (ml/min)		334.01					
<b>Purging Data</b>												
TIME	Change	PH (s.u.)		Specific Conductivity (µS/cm)		Water Temperature (°C)		Dissolved Oxygen (mg/L)		Turbidity (NTU)		Depth to Water (BTOC)
		Reading	Change	Reading	Change	Reading	Change	Reading	Change	Reading	Change	
10:45	N/A	5.82	N/A	50.4	N/A	19.2	N/A	5.39	N/A	18.04	N/A	3.98
10:56	11.00	5.60	-0.22	48.9	3.0%	19.2	0.0%	4.31	-1.08	22.65	-25.55%	4.25
11:05	20.00	5.56	-0.04	49.1	-0.4%	19.3	-0.5%	4.03	-0.28	6.71	70.36%	4.45
11:12	27.00	5.53	-0.03	48.8	1.0%	19.2	0.5%	4.00	-0.03	5.27	21.46%	4.52
11:19	34.00	5.52	-0.01	49.0	-0.8%	19.3	-0.5%	3.97	-0.03	7.54	-43.07%	4.75
<b>Sampling Data</b>												
Sampled By:	J. Floyd, J. Phillips, P. Wylie, C. Hansen		Sampling Time:	11:19	Duplicate: Y or N	N	If yes, Duplicate Time:	N/A	Total Gallons Purged:	3.00		
Notes:												
No Odor												

### Underground Storage Tank Management Division Field Data Information Sheet – Low Flow Sampling

Date:	2/14/2017	Site ID #:	18856	Site Name:	Steady Simmons	Field Personnel:	J. Floyd, J. Phillips, P. Wylie, C. Hansen					
County:	Jasper	Project Manager:	Minda Horonsky	General Weather Conditions:	Clear	Ambient Air Temp (°F):	70					
<b>Quality Assurance</b>												
Meter Name	Serial #:	Calibration:										
YSI Pro1030 (pH, Specific Conductivity, Temp.)	15E101481	pH 4.0: Y or N	Y	pH 7.0: Y or N	Y	pH 10.0: Y or N	Y	S.C.: Y or N	Y			
YSI Pro20 (Dissolved Oxygen)	14H103098	Y or N	Y									
MicroPTW/TPW (Turbidity)	201301174	0.0 NTU: Y or N	Y	1.0 NTU: Y or N	Y	10.0 NTU: Y or N	Y					
<b>Well Information</b>												
Well ID:	DW-2	Well Diameter (ft.): Conversion Factor (C): 1" well = 0.041, 2" well = 0.16, 4" well = 0.652	0.163	Method of Purging/Sample Collection	Submersible Pump w/ Low Flow Controller							
Sample Type: (i.e. MW, IW, RW, WSW)	MW	Screened interval (ft.):	35-40	Total Well Depth (TWD) (ft.):	40							
Depth to Free Product (DFP) (ft.):	ND	Depth to Groundwater (DGW) (ft.):	5.04	Free Product Thickness (ft.):	Not Detected							
Length of water column (LWC = TWD – DGW) (ft.):	34.96	Total Milliliters Removed	9,463.53	Average Pumping Rate (ml/min)	450.64							
<b>Purging Data</b>												
TIME	Change	PH (s.u.)		Specific Conductivity (µS/cm)		Water Temperature (°C)		Dissolved Oxygen (mg/L)		Turbidity (NTU)		Depth to Water (BTC)
		Reading	Change	Reading	Change	Reading	Change	Reading	Change	Reading	Change	
11:25	N/A	5.68	N/A	48.2	N/A	18.0	N/A	6.34	N/A	17.28	N/A	5.15
11:30	5.00	5.61	-0.07	42.9	7.1%	18.7	1.6%	6.08	-0.26	15.62	9.61%	5.36
11:35	10.00	5.64	0.03	40.6	5.4%	18.6	0.5%	5.87	-0.21	11.22	28.17%	5.49
11:40	15.00	5.57	-0.07	39.7	2.2%	18.6	0.0%	5.81	-0.06	11.74	-4.63%	5.79
11:46	21.00	5.52	-0.05	39.1	1.5%	18.5	0.5%	5.74	-0.07	10.98	6.47%	6.01
<b>Sampling Data</b>												
Sampled By:	J. Floyd, J. Phillips, P. Wylie, C. Hansen	Sampling Time:	11:46	Duplicate: Y or N	N	If yes, Duplicate Time:	N/A	Total Gallons Purged:	2.50			
Notes:	No Odor											



### Underground Storage Tank Management Division Field Data Information Sheet – Low Flow Sampling

Date:	2/14/2017	Site ID #:	18856	Site Name:	Steady Simmons	Field Personnel:	J. Floyd, J. Phillips, P. Wylie, C. Hansen					
County:	Jasper	Project Manager:	Minda Horosky	General Weather Conditions:	Clear	Ambient Air Temp (°F):	70					
<b>Quality Assurance</b>												
Meter Name		Serial #:		Calibration:								
YSI Pro1030 (pH, Specific Conductivity, Temp.)		15E101481		pH 4.0: Y or N	Y	pH 7.0: Y or N	Y	pH 10.0: Y or N	Y	S.C.: Y or N	Y	
YSI Pro20 (Dissolved Oxygen)		14H103098		Y or N	Y							
MicroTP/TPW (Turbidity)		201301174		0.0 NTU: Y or N	Y	1.0 NTU: Y or N	Y	10.0 NTU: Y or N	Y			
<b>Well Information</b>												
Well ID:	DW-3	Well Diameter (ft.): Conversion Factor (C): 1" well = 0.041, 2" well = 0.16, 4" well = 0.652			0.163		Method of Purging/Sample Collection		Submersible Pump w/ Low Flow Controller			
Sample Type: (i.e. MW, IW, RW, WSW)	MW	Screened Interval (ft.):			35-40		Total Well Depth (TWD) (ft.):		40			
Depth to Free Product (DFP) (ft.):	ND	Depth to Groundwater (DGW) (ft.):			0.80		Free Product Thickness (ft.):		Not Detected			
Length of water column (LWC = TWD - DGW) (ft.):	39.20	Total Milliliters Removed			7,570.82		Average Pumping Rate (ml/min)		445.34			
<b>Purging Data</b>												
TIME	Change	PH (s.u.)		Specific Conductivity (µS/cm)		Water Temperature (°C)		Dissolved Oxygen (mg/L)		Turbidity (NTU)		Depth to Water (BTC)
		Reading	Change	Reading	Change	Reading	Change	Reading	Change	Reading	Change	
10:05	N/A	6.13	N/A	57.1	N/A	17.9	N/A	4.19	N/A	20.17	N/A	1.01
10:10	5.00	6.01	-0.12	55.3	3.2%	17.9	0.0%	4.10	-0.09	10.14	49.73%	1.36
10:15	10.00	6.00	-0.01	54.2	2.0%	18.1	-1.1%	4.08	-0.02	9.62	5.13%	1.89
10:20	15.00	5.97	-0.03	53.7	0.8%	18.1	0.0%	4.00	-0.08	6.33	34.20%	2.21
10:22	17.00	5.98	0.01	54.1	-0.7%	18.2	-0.6%	3.97	-0.03	6.18	2.37%	2.75
<b>Sampling Data</b>												
Sampled By:	J. Floyd, J. Phillips, P. Wylie, C. Hansen			Sampling Time:	10:22	Duplicate: Y or N	N	If yes, Duplicate Time:	N/A	Total Gallons Purged:	2.00	
Notes:	No Odor											

### Underground Storage Tank Management Division Field Data Information Sheet – Low Flow Sampling

Date:	2/14/2017	Site ID #:	18556	Site Name:	Steady Simmons	Field Personnel:	J. Floyd, J. Phillips, P. Wylie, C. Hansen												
County:	Jasper	Project Manager:	Minda Horosky	General Weather Conditions:	Clear	Ambient Air Temp (°F):	70												
<b>Quality Assurance</b>																			
<b>Meter Name</b>		<b>Serial #:</b>		<b>Calibration:</b>															
YSI Pro1030 (pH, Specific Conductivity, Temp.)		15E101481		pH 4.0: Y or N	Y	pH 7.0: Y or N	Y	pH 10.0: Y or N	Y	S.C.: Y or N	Y								
YSI Pro20 (Dissolved Oxygen)		14H103096		Y or N	Y														
MicroTPVTPW (Turbidity)		201301174		0.0 NTU: Y or N	Y	1.0 NTU: Y or N	Y	10.0 NTU: Y or N	Y										
<b>Well Information</b>																			
<b>Well ID:</b>		DW-4		<b>Well Diameter (ft.):</b> Conversion Factor (C): 1" well = 0.041, 2" well = 0.16, 4" well = 0.652		0.163		<b>Method of Purging/Sample Collection</b>		Submersible Pump w/ Low Flow Controller									
<b>Sample Type: (i.e. MW, IW, RW, WSW)</b>		MW		<b>Screened Interval (ft.):</b>		33-38		<b>Total Well Depth (TWD) (ft.):</b>		38									
<b>Depth to Free Product (DFP) (ft.):</b>		ND		<b>Depth to Groundwater (DGW) (ft.):</b>		12.46		<b>Free Product Thickness (ft.):</b>		Not Detected									
<b>Length of water column (LWC = TWD - DGW) (ft.):</b>		25.54		<b>Total Milliliters Removed</b>		7,570.82		<b>Average Pumping Rate (ml/min)</b>		398.46									
<b>Purging Data</b>																			
TIME	Change	PH (s.u.)		Specific Conductivity (µS/cm)		Water Temperature (°C)		Dissolved Oxygen (mg/L)		Turbidity (NTU)		Depth to Water (BTC)							
		Reading	Change	Reading	Change	Reading	Change	Reading	Change	Reading	Change								
12:55	N/A	6.76	N/A	105.4	N/A	20.3	N/A	4.02	N/A	6.27	N/A	12.76							
13:00	5.00	6.70	-0.06	102.3	2.9%	20.4	-0.5%	3.85	-0.17	7.11	-13.40%	13.02							
13:07	12.00	6.68	-0.02	101.4	0.9%	20.4	0.0%	3.80	-0.05	6.93	2.53%	13.38							
13:12	17.00	6.67	-0.01	101.2	0.2%	20.5	-0.5%	3.77	-0.03	7.47	-7.79%	13.87							
13:17	19.00	6.68	0.01	100.9	0.3%	20.5	0.0%	3.74	-0.03	8.01	-7.23%	14.13							
<b>Sampling Data</b>																			
<b>Sampled By:</b>		J. Floyd, J. Phillips, P. Wylie, C. Hansen		<b>Sampling Time:</b>		13:17		<b>Duplicate: Y or N</b>		N		<b>If yes, Duplicate Time:</b>		N/A		<b>Total Gallons Purged:</b>		2.00	
<b>Notes:</b>												No Odor							

### Underground Storage Tank Management Division Field Data Information Sheet – Low Flow Sampling

Date:	2/15/2017	Site ID #:	18856	Site Name:	Steady Simmons	Field Personnel:	J. Floyd, J. Phillips, P. Wylie, C. Hansen												
County:	Jasper	Project Manager:	Minda Horonsky	General Weather Conditions:	Clear	Ambient Air Temp (°F):	70												
<b>Quality Assurance</b>																			
Meter Name		Serial #:		Calibration:															
YSI Pro1030 (pH, Specific Conductivity, Temp.)		15E101481		pH 4.0: Y or N	Y	pH 7.0: Y or N	Y	pH 10.0: Y or N	Y	S.C.: Y or N	Y								
YSI Pro20 (Dissolved Oxygen)		14H103098		Y or N	Y														
MicroTPH/TPW (Turbidity)		201301174		0.0 NTU: Y or N	Y	1.0 NTU: Y or N	Y	10.0 NTU: Y or N	Y										
<b>Well Information</b>																			
Well ID:		DW-5		Well Diameter (ft.): Conversion Factor (C): 1" well = 0.041, 2" well = 0.16, 4" well = 0.662		0.163		Method of Purging/Sample Collection		Submersible Pump w/ Low Flow Controller									
Sample Type: (i.e. MW, IW, RW, WSW)		MW		Screened Interval (ft.):		33-38		Total Well Depth (TWD) (ft.):		38									
Depth to Free Product (DFP) (ft.):		ND		Depth to Groundwater (DGW) (ft.):		2.51		Free Product Thickness (ft.):		Not Detected									
Length of water column (LWC = TWD - DGW) (ft.):		35.49		Total Milliliters Removed		7,570.82		Average Pumping Rate (ml/min)		378.54									
<b>Purging Data</b>																			
TIME	Change	PH (s.u.)		Specific Conductivity (µS/cm)		Water Temperature (°C)		Dissolved Oxygen (mg/L)		Turbidity (NTU)		Depth to Water (BTC)							
		Reading	Change	Reading	Change	Reading	Change	Reading	Change	Reading	Change								
10:53	N/A	6.14	N/A	52.4	N/A	18.3	N/A	5.27	N/A	11.72	N/A	2.55							
10:58	5.00	6.10	-0.04	51.3	2.1%	18.5	-1.1%	5.20	-0.07	9.67	17.49%	2.94							
11:04	11.00	6.08	-0.02	51.0	0.6%	18.7	-1.1%	5.17	-0.03	8.93	7.65%	3.23							
11:09	16.00	6.09	0.01	50.9	0.2%	18.7	0.0%	5.15	-0.02	8.55	4.26%	3.58							
11:13	20.00	6.08	-0.01	50.5	0.8%	18.8	-0.5%	5.17	0.02	5.13	40.00%	3.87							
<b>Sampling Data</b>																			
Sampled By:		J. Floyd, J. Phillips, P. Wylie, C. Hansen		Sampling Time:		11:13		Duplicate: Y or N		N		If yes, Duplicate Time:		N/A		Total Gallons Purged:		2.00	
Notes:																			
No Odor																			

### Underground Storage Tank Management Division Field Data Information Sheet – Low Flow Sampling

Date:	2/14/2017	Site ID #:	18856	Site Name:	Steady Simmons	Field Personnel:	J. Floyd, J. Phillips, P. Wylie, C. Hansen					
County:	Jasper	Project Manager:	Minda Horonsky	General Weather Conditions:	Clear	Ambient Air Temp (°F):	70					
<b>Quality Assurance</b>												
Meter Name		Serial #:		Calibration:								
YSI Pro1030 (pH, Specific Conductivity, Temp.)		15E101461		pH 4.0: Y or N	Y	pH 7.0: Y or N	Y	pH 10.0: Y or N	Y	S.C.: Y or N	Y	
YSI Pro20 (Dissolved Oxygen)		14H103098		Y or N	Y							
MicroTPH/TPW (Turbidity)		201301174		0.0 NTU: Y or N	Y	1.0 NTU: Y or N	Y	10.0 NTU: Y or N	Y			
<b>Well Information</b>												
Well ID:	DW-6	Well Diameter (ft.): Conversion Factor (C): 1" well = 0.041, 2" well = 0.16, 4" well = 0.652			0.163	Method of Purging/Sample Collection			Submersible Pump w/ Low Flow Controller			
Sample Type: (i.e. MW, IW, RW, WSW)	MW	Screened Interval (ft.):			31-36	Total Well Depth (TWD) (ft.):			36			
Depth to Free Product (DFP) (ft.):	ND	Depth to Groundwater (DGW) (ft.):			3.69	Free Product Thickness (ft.):			Not Detected			
Length of water column (LWC = TWD – DGW) (ft.):	32.31	Total Milliliters Removed			7,570.62	Average Pumping Rate (ml/min)			375.54			
<b>Purging Data</b>												
TIME	Change	PH (s.u.)		Specific Conductivity (µS/cm)		Water Temperature (°C)		Dissolved Oxygen (mg/L)		Turbidity (NTU)		Depth to Water (BTOC)
		Reading	Change	Reading	Change	Reading	Change	Reading	Change	Reading	Change	
14:25	N/A	4.22	N/A	77.6	N/A	18.8	N/A	6.42	N/A	17.39	N/A	3.81
14:29	4.00	5.24	1.02	39.1	49.6%	18.7	0.5%	5.94	-0.48	15.04	13.51%	3.98
14:33	8.00	5.48	0.24	40.2	-2.8%	18.5	1.1%	6.18	0.24	12.86	14.49%	4.06
14:37	12.00	5.62	0.14	38.4	4.5%	18.8	-1.6%	5.87	-0.31	12.37	3.81%	4.17
14:41	16.00	5.67	0.05	36.4	5.2%	19.0	-1.1%	6.03	0.16	11.80	4.61%	4.25
14:45	20.00	5.61	-0.06	38.2	-4.9%	19.0	0.0%	6.05	0.02	11.22	4.92%	4.37
<b>Sampling Data</b>												
Sampled By:	J. Floyd, J. Phillips, P. Wylie, C. Hansen		Sampling Time:	11:13	Duplicate: Y or N	N	If yes, Duplicate Time:	N/A	Total Gallons Purged:	2.00		
Notes:												
No Odor												

### Underground Storage Tank Management Division Field Data Information Sheet – Low Flow Sampling

Date:	2/14/2017	Site ID #:	18856	Site Name:	Steady Simmons	Field Personnel:	J. Floyd, J. Phillips, P. Wylie, C. Hansen												
County:	Jasper	Project Manager:	Minda Horonsky	General Weather Conditions:	Clear	Ambient Air Temp (°F):	70												
<b>Quality Assurance</b>																			
Meter Name		Serial #:		Calibration:															
YSI Pro1030 (pH, Specific Conductivity, Temp.)		15E101481		pH 4.0: Y or N	Y	pH 7.0: Y or N	Y	pH 10.0: Y or N	Y	S.C.: Y or N	Y								
YSI Pro20 (Dissolved Oxygen)		14H103098		Y or N	Y														
MicroTPH/TPW (Turbidity)		201901174		0.0 NTU: Y or N	Y	1.0 NTU: Y or N	Y	10.0 NTU: Y or N	Y										
<b>Well Information</b>																			
Well ID:		DW-7		Well Diameter (ft.): Conversion Factor (C): 1" well = 0.041, 2" well = 0.16, 4" well = 0.652		0.163		Method of Purging/Sample Collection		Submersible Pump w/ Low Flow Controller									
Sample Type: (i.e. MW, IW, RW, WSW)		MW		Screened interval (ft.):		31-36		Total Well Depth (TWD) (ft.):		36									
Depth to Free Product (DFP) (ft.):		ND		Depth to Groundwater (DGW) (ft.):		2.51		Free Product Thickness (ft.):		Not Detected									
Length of water column (LWC = TWD – DGW) (ft.):		33.49		Total Milliliters Removed		7,570.82		Average Pumping Rate (ml/min)		378.54									
<b>Purging Data</b>																			
TIME	Change	PH (s.u.)		Specific Conductivity (µS/cm)		Water Temperature (°C)		Dissolved Oxygen (mg/L)		Turbidity (NTU)		Depth to Water (BTC)							
		Reading	Change	Reading	Change	Reading	Change	Reading	Change	Reading	Change								
12:50	N/A	5.89	N/A	50.9	N/A	20.3	N/A	6.21	N/A	14.92	N/A	2.75							
12:54	4.00	5.84	-0.05	52.7	-3.5%	21.0	-3.4%	6.06	-0.15	13.61	8.78%	3.02							
13:00	10.00	5.81	-0.03	53.1	-0.8%	20.7	1.4%	5.91	-0.15	13.08	3.89%	3.54							
13:05	15.00	5.77	-0.04	53.5	-0.8%	20.6	0.5%	5.87	-0.04	13.46	-2.91%	3.72							
13:10	20.00	5.78	0.01	53.2	0.6%	20.6	0.0%	5.86	-0.01	13.73	-2.01%	4.01							
<b>Sampling Data</b>																			
Sampled By:		J. Floyd, J. Phillips, P. Wylie, C. Hansen		Sampling Time:		11:13		Duplicate: Y or N		N		If yes, Duplicate Time:		N/A		Total Gallons Purged:		2.00	
Notes:									No Odor										

### Underground Storage Tank Management Division Field Data Information Sheet – Low Flow Sampling

Date:	2/14/2017	Site ID #:	18856	Site Name:	Steady Simmons	Field Personnel:	J. Floyd, J. Phillips, P. Wylie, C. Hansen												
County:	Jasper	Project Manager:	Minda Horosky	General Weather Conditions:	Clear	Ambient Air Temp (°F):	70												
<b>Quality Assurance</b>																			
<b>Meter Name</b>		<b>Serial #:</b>		<b>Calibration:</b>															
YSI Pro1030 (pH, Specific Conductivity, Temp.)		15E101481		pH 4.0: Y or N	Y	pH 7.0: Y or N	Y	pH 10.0: Y or N	Y	S.C.: Y or N	Y								
YSI Pro20 (Dissolved Oxygen)		14H103098		Y or N	Y														
MicroTP/TPW (Turbidity)		201301174		0.0 NTU: Y or N	Y	1.0 NTU: Y or N	Y	10.0 NTU: Y or N	Y										
<b>Well Information</b>																			
<b>Well ID:</b>		DW-8		<b>Well Diameter (ft.):</b> Conversion Factor (C): 1" well = 0.041, 2" well = 0.16, 4" well = 0.652			0.163		<b>Method of Purging/Sample Collection:</b> Submersible Pump w/ Low Flow Controller										
<b>Sample Type: (i.e. MW, IW, RW, WGW)</b>		MW		<b>Screened interval (ft.):</b>			35-40		<b>Total Well Depth (TWD) (ft.):</b> 40										
<b>Depth to Free Product (DFP) (ft.):</b>		ND		<b>Depth to Groundwater (DGW) (ft.):</b>			11.58		<b>Free Product Thickness (ft.):</b> Not Detected										
<b>Length of water column (LWC = TWD - DGW) (ft.):</b>		28.42		<b>Total Milliliters Removed:</b>			7,570.82		<b>Average Pumping Rate (ml/min):</b>		378.54								
<b>Purging Data</b>																			
TIME	Change	PH (s.u.)		Specific Conductivity (µS/cm)		Water Temperature (°C)		Dissolved Oxygen (mg/L)		Turbidity (NTU)		Depth to Water (BTC)							
		Reading	Change	Reading	Change	Reading	Change	Reading	Change	Reading	Change								
10:50	N/A	6.87	N/A	166.5	N/A	19.3	N/A	3.99	N/A	4.77	N/A	11.65							
10:55	5.00	6.77	-0.10	164.2	1.4%	19.4	-0.5%	3.85	-0.14	6.37	-33.54%	11.84							
11:00	10.00	6.74	-0.03	163.9	0.2%	19.7	-1.5%	3.79	-0.06	6.99	-9.73%	112.05							
11:05	15.00	6.73	-0.01	162.7	0.7%	19.7	0.0%	3.75	-0.04	8.21	-17.45%	12.24							
11:10	20.00	6.72	-0.01	160.4	1.4%	19.8	-0.5%	3.69	-0.06	7.47	9.01%	12.56							
11:12	22.00	6.73	0.01	161.1	-0.4%	19.8	0.0%	3.72	0.03	7.59	-1.61%	12.80							
<b>Sampling Data</b>																			
<b>Sampled By:</b>		J. Floyd, J. Phillips, P. Wylie, C. Hansen		<b>Sampling Time:</b>		11:12		<b>Duplicate: Y or N</b>		N		<b>If yes, Duplicate Time:</b>		N/A		<b>Total Gallons Purged:</b>		2.00	
<b>Notes:</b>												No Odor							



February 22, 2017

Re: Treatment of Purge Water  
Steady Simmons  
Early Branch, South Carolina  
SCDHEC Site ID Number 18856  
MECI Project Number 16-5824

To Whom It May Concern;

Midlands Environmental Consultants, Inc. is providing the following letter as certification that treatment of the referenced purge water complied with the conditions of "Proposed Conditions for Use of Portable Activated Carbon Units for the Treatment of Small Volumes of Petroleum Hydrocarbon Contaminated Groundwater", as described in the following:

Applicability:

Groundwater treated was obtained as a result development of wells and sampling.

Conditions:

1. The purge/bail water from all wells is mixed before usage of the Activated Carbon Unit.
2. No free-product was detected in any of the purge water drums.
3. Analytical results of from well sampling show average concentrations of petroleum hydrocarbon constituents less than 5000 parts per billion (ppb) Benzene and less than 20,000 ppb total BTEX.
4. The existing carbon pack will be replaced/reactivated every 5,000 gallons.
5. Record of usage is maintained by Contractor.
6. Any and all recommendations and conditions issued by the Manufacturer have been adhered to.
7. Any and all recommendations and conditions (even on a site by site basis) issued by the SCDHEC must be adhered to.

All purge waters were treated on-site using an up-flow treatment drum loaded with 80 pounds of activated carbon. Carbon will be loaded to a maximum of 3 pounds of total organic compounds or 5,000 gallons of development/purge water, whichever occurs first.

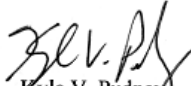
February 22, 2017

**A total of 42.00 gallons were treated on February 14-15, 2017 at the referenced site.**

Midlands Environmental also tracks cumulative organic compounds adsorbed on the activated carbon to ensure the capacity of carbon mass is not over-charged. This data is available upon request.

Should you have any questions or comments, please contact the undersigned.

Sincerely,  
Midlands Environmental Consultants, Inc.

  
Kyle V. Pudney  
Project Biologist





### CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

<b>Section A</b> Required Client Information: Company: SCDFE-UST Address: 7600 Ball Street Columbia SC 29202 Email To: jordan@scdf.com Phone: 803-548-0600 Requested Due Date/TAT:		<b>Section B</b> Required Project Information: Report To: J. Bryant-UST Copy To: Purchase Order No.: 460062257 Project Name: Station Simmons Project Number: UST-15256 CA-53672		<b>Section C</b> Invoice Information: Attention: Company Name: Address: Pace Quote Reference: Pace Project Manager: T. Cocter Pace Profile #:		Page: 1 of 3 <b>2149375</b>
<b>REGULATORY AGENCY</b> <input type="checkbox"/> NPDES <input type="checkbox"/> GROUND WATER <input type="checkbox"/> DRINKING WATER <input checked="" type="checkbox"/> UST <input type="checkbox"/> RCRA <input type="checkbox"/> OTHER				Site Location STATE: SC Station: Jospet		

ITEM #	SAMPLE ID (A-Z, 0-9, -) Sample IDs MUST BE UNIQUE	Matrix Codes MATRIX / CODE Drinking Water DW Water WT Waste Water WW Product P Solid/Slud Oil Wipe WS Air AR Tissue TS Other OT	COLLECTED COMPOSITE START COMPOSITE END/DAYS	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives										Requested Analysis Filtered (Y/N)				Residual Chlorine (Y/N)	Pace Project No / Lab I.D.	
						Matrix Code (see valid codes to left)										Analysis Test #	COT	PRA	OVI			VOC
						DATE	TIME	DATE	TIME	UNPRESERVED	H <sub>2</sub> SO <sub>4</sub>	HNO <sub>3</sub>	HCl	NaOH	Na <sub>2</sub> S <sub>2</sub> O <sub>8</sub>							
1	MW-12	WT	G	2/14/17	12:44	6																
2	MW-2				13:30																	
3	MW-3				12:12																	
4	MW-4				11:27																	
5	MW-5				10:17																	
6	MW-6				10:31																	
7	MW-2				10:50																	
8	MW-2				11:12																	
9	MW-3	WT	G	2/14/17	11:25	6													No odor			
10	MW-10																		No odor			
11	MW-11	WT	G	2/15/17	10:00	6													Not sampled			
12	MW-12	WT	G	2/14/17	12:40	6													No odor			

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	Peter J. Wyle / MELT	2/15/17	15:00				

2

<b>SAMPLER NAME AND SIGNATURE</b> PRINT Name of SAMPLER: Peter J. Wyle SIGNATURE of SAMPLER: <i>Peter J. Wyle</i>		DATE Signed (MM/DD/YY): 2/15/17
---	--	---------------------------------

Temp in °C	Received on for (Y/N)	Custody Sign-off (Y/N)	Sample Intact (Y/N)
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\*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days. F-ALL-Q-020rev 07, 15-May-2007



CHAIN-OF-CUSTODY / Analytical Request Document

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Page: 2 of 3

**2149378**

REGULATORY AGENCY  
 NPDES  GROUND WATER  DRINKING WATER  
 UST  RCRA  OTHER

Site Location: SC Jasper  
 STATE:

**Section A**  
Required Client Information:

Company: SCDHCC - UST  
 Address: 2600 Bull Street  
Columbia SC 29202  
 Email To: scdhcc@scdhcc.com  
 Phone: 803-266-2626 Fax: 803-266-2627  
 Requested Due Date/TAT:

**Section B**  
Required Project Information:

Report To: J. Simmons - UST  
 Copy To:  
 Purchase Order No.: 4600477515  
 Project Name: 2009 Simmons  
 Project Number: UST-13456 CA-5347

**Section C**  
Invoice Information:

Attention:  
 Company Name:  
 Address:  
 Pace Quote Reference:  
 Pace Project Manager: T. Carter  
 Pace Profile #:

ITEM #	SAMPLE ID (A-Z, 0-9, /) Sample IDs MUST BE UNIQUE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (S-COMB)	COLLECTED				SAMPLE TEMP AT COLLECTION	Requested Analysis Filtered (Y/N)											Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.								
				COMPOSITE START	COMPOSITE END	# OF CONTAINERS	Preservatives										Analysis Test 1												
							DATE		TIME	DATE	TIME	Unpreserved	H2SO4	HNO3	HCl	NH4OH		Na2S2O3	Methanol			Other	Analysis Test 1						
1	DV-13	↓	6			2/14/17	12:10	6																			No odor		
2	DV-14					2/14/17	12:50																					No odor	
3	DV-15					2/15/17	10:48																					No odor	
4	DV-16					2/14/17	14:20																						
5	DV-17						10:45																						
6	DV-1						11:19																						
7	DV-2					2/14/17	11:46																						
8	DV-2					2/15/17	10:22																						
9	DV-4					2/14/17	13:17																						
10	DV-5					2/15/17	11:13																						
11	DV-6					2/14/17	14:45																						
12	DV-7					2/14/17	13:10																						No odor

ADDITIONAL COMMENTS: Peter J. Wyle / HCCI

RELINQUISHED BY / AFFILIATION: Peter J. Wyle / HCCI DATE: 2/15/17 TIME: 15:00

ACCEPTED BY / AFFILIATION: \_\_\_\_\_ DATE: \_\_\_\_\_ TIME: \_\_\_\_\_

SAMPLER NAME AND SIGNATURE:  
 PRINT Name of SAMPLER: Peter J. Wyle  
 SIGNATURE of SAMPLER: Peter J. Wyle DATE Signed (MM/DD/YY): 2/15/17

Temperature in °C: \_\_\_\_\_  
 Received on Ice (Y/N): \_\_\_\_\_  
 Custody Seal Intact (Y/N): \_\_\_\_\_  
 Samples Intact (Y/N): \_\_\_\_\_

\*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.



**CHAIN-OF-CUSTODY / Analytical Request Document**  
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<b>Section A</b> Required Client Information:	<b>Section B</b> Required Project Information:	<b>Section C</b> Invoice Information:	Page: <u>3</u> of <u>3</u>
Company: SCHEC - UST Address: 2602 Ball Street Columbia, SC 29202 Email To: SCHEC@SCHEC.COM Phone: 803-544-0644 / 803-902-0123 Requested Due Date/TAT:	Report To: J. Simmons - UST Copy To: Purchase Order No: 46042257 Project Name: Shady Simmons Project Number: UST-12856 EA-23646	Attention: Company Name: Address: Pace Quote Reference: Pace Project Manager: T. Carter Pace Profile #:	<b>2149379</b>
<b>REGULATORY AGENCY</b>			
<input type="checkbox"/> NPDES <input type="checkbox"/> GROUND WATER <input type="checkbox"/> DRINKING WATER <input type="checkbox"/> UST <input type="checkbox"/> RCRA <input type="checkbox"/> OTHER			
Site Location:			STATE: SC    Jasper

ITEM #	SAMPLE ID (A-Z, 0-9, -) Sample IDs MUST BE UNIQUE	Matrix Codes MATRIX / CODE	Matrix Codes MATRIX / CODE	SAMPLE TYPE (G) (G) (G) (C) (COMP)	COLLECTED				# OF CONTAINERS	Preservatives								Analysis Test #	Requested Analysis Filtered (Y/N)												Residual Chlorine (Y/N)	Pace Project No / Lab I.D.
					COMPOSITE START		COMPOSITE END/GRAB			UNPRESERVED	H2SO4	HNO3	HCl	NaOH	Na2S2O8	Methanol	Other		I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII		
					DATE	TIME	DATE	TIME																								
1	DW-8	DW	WT	G			2/14/17	11:12	6																			No odor				
2	Duplicate 1	DW	WT	G			2/14/17	11:12	1																			No odor				
3	Duplicate 2	DW	WT	G			2/14/17	10:48	1																			No odor				
4	Field Blank	WT	WT	G			2/14/17	11:40	1																			Field blank				
5	SU-1	DW	WT	G			2/14/17	10:55	1																			LDLs				
6	SU-2	DW	WT	G			2/14/17	11:00	1																			LDLs				
7	SU-3	DW	WT	G			2/15/17	11:05	1																			LDLs				
8	Trip Blank	WT	WT	G			2/14/17	11:21	2																			Trip blank				
9	Field blank 2	WT	WT	G			2/15/17	11:20	1																			Field blank 2				
10	Trip blank 2	WT	WT	G			2/15/17	11:21	2																			Trip blank 2				
11																																
12																																

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	Peter J. Lytle / MCCI	2/15/17	15:00				

2

<b>SAMPLER NAME AND SIGNATURE</b>		Temp in °C	Received on for (Y/M)	Custom Shrinkwrap (Y/N)	Samples intact (Y/N)
PRINT Name of SAMPLER: Peter J. Lytle	SIGNATURE of SAMPLER: <i>[Signature]</i>				
DATE Signed (MM/DD/YY): 2/15/17					

\*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days. Pace Analytical, Inc. F-ALL-Q-020rev.07, 15-May-2007



### CHAIN-OF-CUSTODY / Analytical Request Document

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Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:		Page: 1 of 1	
Company: SLO PIECO UST		Report To: J. Payne - UST		Attention:		2149153	
Address: 2600 Bull Street Columbia SC 29202		Copy To:		Company Name:		REGULATORY AGENCY	
Email To: jpayne@slpieco.us		Purchase Order No: 460472575		Address:		<input type="checkbox"/> NPDES <input type="checkbox"/> GROUND WATER <input type="checkbox"/> DRINKING WATER <input type="checkbox"/> UST <input type="checkbox"/> RCRA <input type="checkbox"/> OTHER	
Phone: 803-722-0626   Fax: 803-542-0620		Project Name: Aedyn Simmons		Pace Quote Reference:		Site Location	
Requested Due Date/TAT:		Project Number: UST-18456 CA-53646		Pace Project Manager: T. Corber		STATE: SC Jasper	

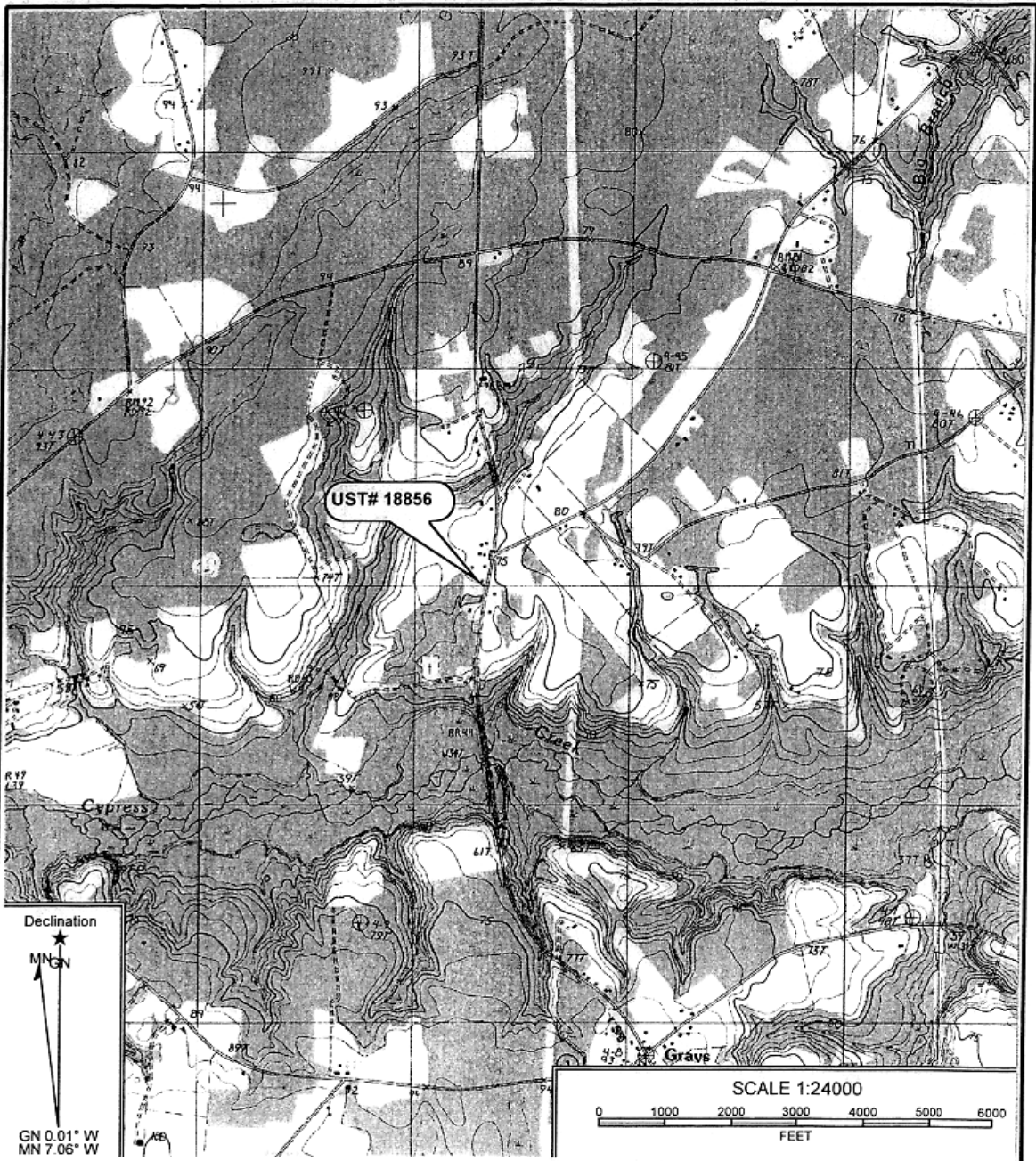
ITEM #	SAMPLE ID (A-Z, 0-9, .) Sample IDs MUST BE UNIQUE	Matrix Codes MATRIX / CODE Drinking Water: DW Water: WT Waste Water: WW Product: P Soil/Solid: SL Oil: OL Wipe: WP Air: AR TS: Tissue: OT	Matrix Code (use valid codes in left)	SAMPLE TYPE (CHORUS, C-COMP)	COLLECTED				SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives								Analysis Test #	Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)	Pace Project No. / Lab I.D.												
					COMPOSITE START		COMPOSITE END/GRAB				Unpreserved	H <sub>2</sub> SO <sub>4</sub>	HNO <sub>3</sub>	HCl	NaOH	Na <sub>2</sub> SO <sub>3</sub>	Methanol	Other					Requested Analysis Filtered (Y/N)											
					DATE	TIME	DATE	TIME															VFA	PC	PFAS	PDS	504.1							
					DATE	TIME	DATE	TIME															Analysis Test #	VFA	PC	PFAS	PDS	504.1						
1	V50-1	DW	DW	DW	2/15/17	9:50	9	6	3						XXX				IDLs															
2	V50-2	DW	DW	DW		10:40																												
3	V50-2	DW	DW	DW		10:15																												
4	V50-4	DW	DW	DW		10:00																												
5	V50-5	DW	DW	DW	2/15/17	11:30	9	6	3						XXX				IDLs															
6	V50-6	DW	DW	DW																IDLs														
7	V50-7	DW	DW	DW	2/15/17	10:25	9	6	3						XXX				Not sampled															
8	V50-8	DW	DW	DW																IDLs														
9	V50-9	DW	DW	DW	2/15/17	11:00	9	6	3						XXX				Not sampled															
10	Quat. wash					9:50	4								XXX				IDLs															
11	Field Blank					11:40	9								XXX				Field blank															
12	Field Blank				2/15/17	11:41	6								XXX				Field blank															
ADDITIONAL COMMENTS					RELINQUISHED BY / AFFILIATION		DATE	TIME	ACCEPTED BY / AFFILIATION			DATE	TIME	SAMPLE CONDITIONS																				
					Peter J. Wiley / M&E		2/15/17	15:00																										

2

SAMPLER NAME AND SIGNATURE			Temp in °C
PRINT Name of SAMPLER:	Peter J. Wiley	DATE Signed (MM/DD/YY):	2/15/17
SIGNATURE of SAMPLER:	Peter J. Wiley	Temp in °C	Received on for (Y/N)
		Custody Stamp Color (Y/N)	Sample Intact (Y/N)

\* By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.25% per month for any invoices not paid within 30 days.

F-ALL-O-020rev.07, 15-May-2007



Declination  
 ★  
 MN  
 GN  
 GN 0.01° W  
 MN 7.06° W

SCALE 1:24000  
 0 1000 2000 3000 4000 5000 6000  
 FEET

Reference: Grays, South Carolina  
 USGS 7.5 Min. Quad  
 Countour Interval - 5 Feet

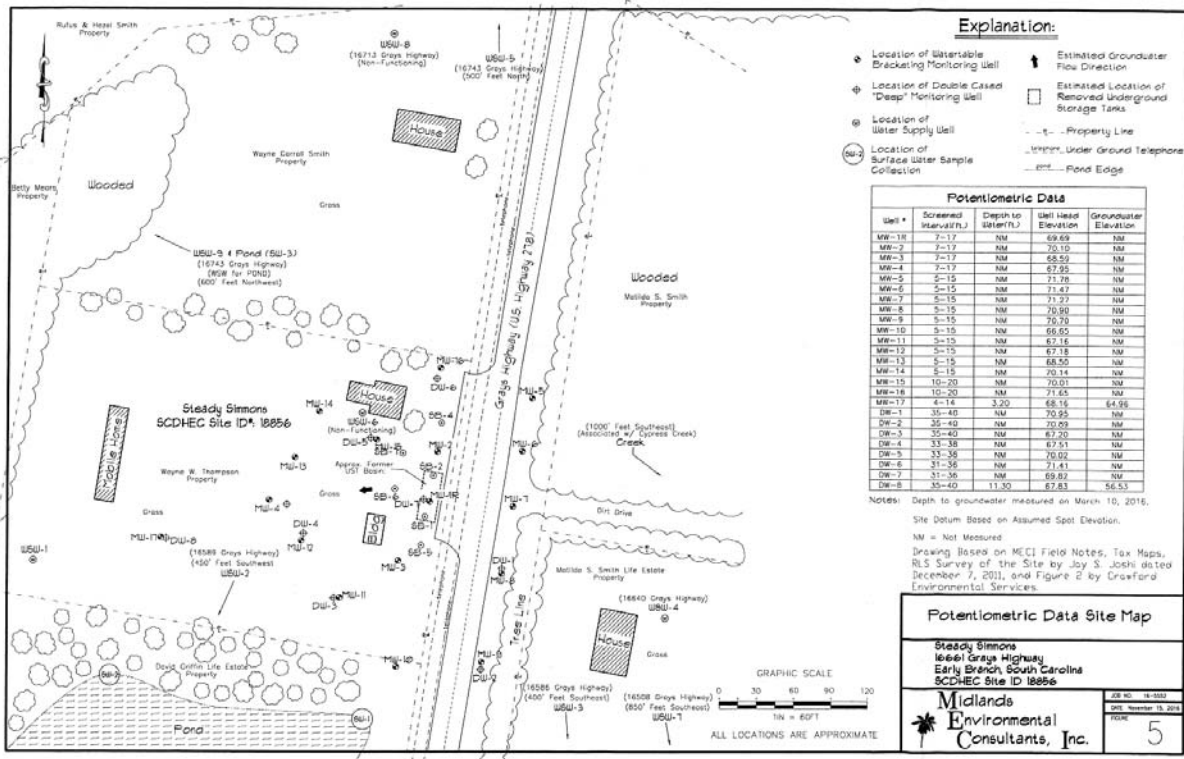
Midlands  
 Environmental  
 Consultants, Inc.

Site Location

Steady Simmons  
 16661 Grays Highway, Early Branch, South Carolina  
 SCDHEC Site ID# 18856

Figure 1

MECI 16-5552





February 23, 2017

Mr. John Bryant  
SCDHEC  
UST Program  
2600 Bull Street  
Columbia, SC 29201



RE: Project: STEADY SIMMONS 18856/53647  
Pace Project No.: 92330251

Dear Mr. Bryant:

Enclosed are the analytical results for sample(s) received by the laboratory on February 16, 2017. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Trey Carter  
treycarter@pacelabs.com  
Project Manager

Enclosures

cc: Ashleigh Thrash, SCHDEC



**REPORT OF LABORATORY ANALYSIS**

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Pace Analytical Services, LLC  
9800 Kinsey Ave. Suite 100  
Huntersville, NC 28078  
(704)875-9092

### CERTIFICATIONS

Project: STEADY SIMMONS 18856/53647  
Pace Project No.: 92330251

---

#### Charlotte Certification IDs

9800 Kinsey Ave. Ste 100, Huntersville, NC 28078  
North Carolina Drinking Water Certification #: 37706  
North Carolina Field Services Certification #: 5342  
North Carolina Wastewater Certification #: 12

South Carolina Certification #: 99006001  
Florida/NELAP Certification #: E87627  
Kentucky UST Certification #: 84  
Virginia/VELAP Certification #: 460221

---

### REPORT OF LABORATORY ANALYSIS

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### SAMPLE SUMMARY

Project: STEADY SIMMONS 18856/53647  
Pace Project No.: 92330251

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92330251001	MW-1R	Water	02/14/17 12:44	02/16/17 11:40
92330251002	MW-2	Water	02/14/17 13:30	02/16/17 11:40
92330251003	MW-3	Water	02/14/17 12:12	02/16/17 11:40
92330251004	MW-4	Water	02/14/17 11:37	02/16/17 11:40
92330251005	MW-5	Water	02/14/17 10:17	02/16/17 11:40
92330251006	MW-6	Water	02/14/17 10:31	02/16/17 11:40
92330251007	MW-7	Water	02/14/17 10:50	02/16/17 11:40
92330251008	MW-8	Water	02/14/17 11:12	02/16/17 11:40
92330251009	MW-9	Water	02/14/17 11:35	02/16/17 11:40
92330251010	MW-11	Water	02/15/17 10:00	02/16/17 11:40
92330251011	MW-12	Water	02/14/17 13:40	02/16/17 11:40
92330251012	MW-13	Water	02/14/17 12:10	02/16/17 11:40
92330251013	MW-14	Water	02/14/17 12:50	02/16/17 11:40
92330251014	MW-15	Water	02/15/17 10:48	02/16/17 11:40
92330251015	MW-16	Water	02/14/17 14:20	02/16/17 11:40
92330251016	MW-17	Water	02/14/17 10:45	02/16/17 11:40
92330251017	DW-1	Water	02/14/17 11:19	02/16/17 11:40
92330251018	DW-2	Water	02/14/17 11:46	02/16/17 11:40
92330251019	DW-3	Water	02/15/17 10:22	02/16/17 11:40
92330251020	DW-4	Water	02/14/17 13:17	02/16/17 11:40
92330251021	DW-5	Water	02/15/17 11:13	02/16/17 11:40
92330251022	DW-6	Water	02/14/17 14:45	02/16/17 11:40
92330251023	DW-7	Water	02/14/17 13:10	02/16/17 11:40
92330251024	DW-8	Water	02/14/17 11:12	02/16/17 11:40
92330251025	DUPLICATE 1	Water	02/14/17 12:12	02/16/17 11:40
92330251026	DUPLICATE 2	Water	02/15/17 10:48	02/16/17 11:40
92330251027	FIELD BLANK	Water	02/14/17 14:40	02/16/17 11:40
92330251028	SW-1	Water	02/14/17 10:55	02/16/17 11:40
92330251029	SW-2	Water	02/14/17 11:00	02/16/17 11:40
92330251030	SW-3	Water	02/15/17 11:05	02/16/17 11:40
92330251031	FIELD BLANK 2	Water	02/15/17 11:20	02/16/17 11:40
92330251032	TRIP BLANK	Water	02/14/17 11:21	02/16/17 11:40
92330251033	TRIP BLANK 2	Water	02/15/17 11:21	02/16/17 11:40

### REPORT OF LABORATORY ANALYSIS

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**SAMPLE ANALYTE COUNT**

Project: STEADY SIMMONS 18856/53647  
Pace Project No.: 92330251

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92330251001	MW-1R	EPA 8011	HSK	2	PASI-C
		EPA 8260	GAW	20	PASI-C
92330251002	MW-2	EPA 8011	HSK	2	PASI-C
		EPA 8260	GAW	20	PASI-C
92330251003	MW-3	EPA 8011	HSK	2	PASI-C
		EPA 8260	GAW	20	PASI-C
92330251004	MW-4	EPA 8011	HSK	2	PASI-C
		EPA 8260	GAW	20	PASI-C
92330251005	MW-5	EPA 8011	HSK	2	PASI-C
		EPA 8260	GAW	20	PASI-C
92330251006	MW-6	EPA 8011	HSK	2	PASI-C
		EPA 8260	GAW	20	PASI-C
92330251007	MW-7	EPA 8011	HSK	2	PASI-C
		EPA 8260	GAW	20	PASI-C
92330251008	MW-8	EPA 8011	HSK	2	PASI-C
		EPA 8260	GAW	20	PASI-C
92330251009	MW-9	EPA 8011	HSK	2	PASI-C
		EPA 8260	GAW	20	PASI-C
92330251010	MW-11	EPA 8011	HSK	2	PASI-C
		EPA 8260	GAW	20	PASI-C
92330251011	MW-12	EPA 8011	HSK	2	PASI-C
		EPA 8260	GAW	20	PASI-C
92330251012	MW-13	EPA 8011	HSK	2	PASI-C
		EPA 8260	GAW	20	PASI-C
92330251013	MW-14	EPA 8011	HSK	2	PASI-C
		EPA 8260	GAW	20	PASI-C
92330251014	MW-15	EPA 8011	HSK	2	PASI-C
		EPA 8260	GAW	20	PASI-C
92330251015	MW-16	EPA 8011	HSK	2	PASI-C
		EPA 8260	GAW	20	PASI-C
92330251016	MW-17	EPA 8011	HSK	2	PASI-C
		EPA 8260	GAW	20	PASI-C
92330251017	DW-1	EPA 8011	HSK	2	PASI-C
		EPA 8260	GAW	20	PASI-C
92330251018	DW-2	EPA 8011	HSK	2	PASI-C
		EPA 8260	GAW	20	PASI-C
92330251019	DW-3	EPA 8011	HSK	2	PASI-C

**REPORT OF LABORATORY ANALYSIS**

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**SAMPLE ANALYTE COUNT**

Project: STEADY SIMMONS 18856/53647  
 Pace Project No.: 92330251

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 8260	GAW	20	PASI-C
92330251020	DW-4	EPA 8011	HSK	2	PASI-C
		EPA 8260	GAW	20	PASI-C
92330251021	DW-5	EPA 8011	HSK	2	PASI-C
		EPA 8260	GAW	20	PASI-C
92330251022	DW-6	EPA 8011	HSK	2	PASI-C
		EPA 8260	GAW	20	PASI-C
92330251023	DW-7	EPA 8011	HSK	2	PASI-C
		EPA 8260	GAW	20	PASI-C
92330251024	DW-8	EPA 8011	HSK	2	PASI-C
		EPA 8260	GAW	20	PASI-C
92330251025	DUPLICATE 1	EPA 8011	HSK	2	PASI-C
		EPA 8260	GAW	20	PASI-C
92330251026	DUPLICATE 2	EPA 8011	HSK	2	PASI-C
		EPA 8260	GAW	20	PASI-C
92330251027	FIELD BLANK	EPA 8011	HSK	2	PASI-C
		EPA 8260	GAW	20	PASI-C
92330251028	SW-1	EPA 8011	HSK	2	PASI-C
		EPA 8260	GAW	20	PASI-C
92330251029	SW-2	EPA 8011	HSK	2	PASI-C
		EPA 8260	GAW	20	PASI-C
92330251030	SW-3	EPA 8011	HSK	2	PASI-C
		EPA 8260	GAW	20	PASI-C
92330251031	FIELD BLANK 2	EPA 8011	HSK	2	PASI-C
		EPA 8260	GAW	20	PASI-C
92330251032	TRIP BLANK	EPA 8260	GAW	20	PASI-C
92330251033	TRIP BLANK 2	EPA 8260	GAW	20	PASI-C

**REPORT OF LABORATORY ANALYSIS**

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### SUMMARY OF DETECTION

Project: STEADY SIMMONS 18856/53647  
Pace Project No.: 92330251

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
<b>92330251001</b>	<b>MW-1R</b>					
EPA 8260	Benzene	5.2J	ug/L	10.0	02/20/17 21:49	
EPA 8260	Ethylbenzene	64.0	ug/L	10.0	02/20/17 21:49	
EPA 8260	Naphthalene	92.4	ug/L	10.0	02/20/17 21:49	
EPA 8260	Toluene	27.1	ug/L	10.0	02/20/17 21:49	
EPA 8260	Xylene (Total)	344	ug/L	20.0	02/20/17 21:49	
EPA 8260	m&p-Xylene	163	ug/L	20.0	02/20/17 21:49	
EPA 8260	o-Xylene	181	ug/L	10.0	02/20/17 21:49	
<b>92330251002</b>	<b>MW-2</b>					
EPA 8011	1,2-Dibromoethane (EDB)	1.2	ug/L	0.039	02/21/17 12:15	
EPA 8260	Benzene	243	ug/L	50.0	02/20/17 22:07	
EPA 8260	Ethylbenzene	432	ug/L	50.0	02/20/17 22:07	
EPA 8260	Naphthalene	156	ug/L	50.0	02/20/17 22:07	
EPA 8260	Toluene	1770	ug/L	50.0	02/20/17 22:07	
EPA 8260	Xylene (Total)	3220	ug/L	100	02/20/17 22:07	
EPA 8260	m&p-Xylene	2030	ug/L	100	02/20/17 22:07	
EPA 8260	o-Xylene	1180	ug/L	50.0	02/20/17 22:07	
<b>92330251003</b>	<b>MW-3</b>					
EPA 8260	Benzene	7.4	ug/L	5.0	02/18/17 12:43	
EPA 8260	Ethylbenzene	3.1J	ug/L	5.0	02/18/17 12:43	
<b>92330251010</b>	<b>MW-11</b>					
EPA 8260	Methyl-tert-butyl ether	5.2	ug/L	5.0	02/18/17 14:47	
<b>92330251011</b>	<b>MW-12</b>					
EPA 8011	1,2-Dibromoethane (EDB)	0.061	ug/L	0.019	02/20/17 23:00	
EPA 8260	tert-Amyl Alcohol	218	ug/L	200	02/22/17 12:00	
EPA 8260	Benzene	239	ug/L	10.0	02/22/17 12:00	
EPA 8260	Ethylbenzene	13.2	ug/L	10.0	02/22/17 12:00	
EPA 8260	Methyl-tert-butyl ether	33.8	ug/L	10.0	02/22/17 12:00	
EPA 8260	Naphthalene	26.8	ug/L	10.0	02/22/17 12:00	
EPA 8260	Toluene	4.6J	ug/L	10.0	02/22/17 12:00	
EPA 8260	m&p-Xylene	8.9J	ug/L	20.0	02/22/17 12:00	
EPA 8260	o-Xylene	3.8J	ug/L	10.0	02/22/17 12:00	
<b>92330251014</b>	<b>MW-15</b>					
EPA 8260	Benzene	2.1J	ug/L	5.0	02/18/17 15:41	
<b>92330251015</b>	<b>MW-16</b>					
EPA 8260	Toluene	4.7J	ug/L	5.0	02/18/17 15:58	
EPA 8260	o-Xylene	1.9J	ug/L	5.0	02/18/17 15:58	
<b>92330251025</b>	<b>DUPLICATE 1</b>					
EPA 8011	1,2-Dibromoethane (EDB)	0.023	ug/L	0.020	02/21/17 06:06	
EPA 8260	Benzene	6.6	ug/L	5.0	02/20/17 23:36	
EPA 8260	Ethylbenzene	3.1J	ug/L	5.0	02/20/17 23:36	
<b>92330251026</b>	<b>DUPLICATE 2</b>					
EPA 8260	Benzene	1.8J	ug/L	5.0	02/21/17 00:11	

### REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: STEADY SIMMONS 18856/53647  
Pace Project No.: 92330251

---

**Method:** EPA 8011  
**Description:** 8011 GCS EDB and DBCP  
**Client:** SCDHEC  
**Date:** February 23, 2017

**General Information:**

31 samples were analyzed for EPA 8011. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

**Hold Time:**

The samples were analyzed within the method required hold times with any exceptions noted below.

**Sample Preparation:**

The samples were prepared in accordance with EPA 8011 with any exceptions noted below.

**Initial Calibrations (including MS Tune as applicable):**

All criteria were within method requirements with any exceptions noted below.

**Continuing Calibration:**

All criteria were within method requirements with any exceptions noted below.

**Surrogates:**

All surrogates were within QC limits with any exceptions noted below.

**Method Blank:**

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

**Laboratory Control Spike:**

All laboratory control spike compounds were within QC limits with any exceptions noted below.

**Matrix Spikes:**

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

**Duplicate Sample:**

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

**Additional Comments:**

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: STEADY SIMMONS 18856/53647  
Pace Project No.: 92330251

---

**Method:** EPA 8260  
**Description:** 8260 MSV Low Level SC  
**Client:** SCDHEC  
**Date:** February 23, 2017

**General Information:**

3 samples were analyzed for EPA 8260. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

**Hold Time:**

The samples were analyzed within the method required hold times with any exceptions noted below.

**Initial Calibrations (including MS Tune as applicable):**

All criteria were within method requirements with any exceptions noted below.

**Continuing Calibration:**

All criteria were within method requirements with any exceptions noted below.

**Internal Standards:**

All internal standards were within QC limits with any exceptions noted below.

**Surrogates:**

All surrogates were within QC limits with any exceptions noted below.

**Method Blank:**

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

**Laboratory Control Spike:**

All laboratory control spike compounds were within QC limits with any exceptions noted below.

**Matrix Spikes:**

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 348819

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 92330251030

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 1935436)
  - Benzene
  - tert-Butyl Alcohol
  - tert-Butyl Formate

**Duplicate Sample:**

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

**Additional Comments:**

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: STEADY SIMMONS 18856/53647  
Pace Project No.: 92330251

---

**Method:** EPA 8260  
**Description:** 8260 MSV  
**Client:** SCDHEC  
**Date:** February 23, 2017

**General Information:**

30 samples were analyzed for EPA 8260. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

**Hold Time:**

The samples were analyzed within the method required hold times with any exceptions noted below.

**Initial Calibrations (including MS Tune as applicable):**

All criteria were within method requirements with any exceptions noted below.

**Continuing Calibration:**

All criteria were within method requirements with any exceptions noted below.

**Internal Standards:**

All internal standards were within QC limits with any exceptions noted below.

**Surrogates:**

All surrogates were within QC limits with any exceptions noted below.

**Method Blank:**

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

**Laboratory Control Spike:**

All laboratory control spike compounds were within QC limits with any exceptions noted below.

**Matrix Spikes:**

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below

QC Batch: 348873

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 92330251018

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 1935755)
- Benzene
- tert-Butyl Formate

P5: The EPA or method required sample preservation degrades this compound, therefore acceptable recoveries may not be achieved in sample matrix spikes.

- MS (Lab ID: 1935755)
- tert-Butyl Formate

QC Batch: 348888

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 92330454004

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 1935952)
- 1,2-Dichloroethane

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## PROJECT NARRATIVE

Project: STEADY SIMMONS 18856/53647  
Pace Project No.: 92330251

---

**Method:** EPA 8260  
**Description:** 8260 MSV  
**Client:** SCDHEC  
**Date:** February 23, 2017

QC Batch: 348888

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 92330454004

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- 3,3-Dimethyl-1-Butanol
- Benzene
- Diisopropyl ether
- Ethyl-tert-butyl ether
- Ethylbenzene
- Methyl-tert-butyl ether
- Toluene
- m&p-Xylene
- o-Xylene
- tert-Amylmethyl ether
- tert-Butyl Formate

P5: The EPA or method required sample preservation degrades this compound, therefore acceptable recoveries may not be achieved in sample matrix spikes.

- MS (Lab ID: 1935952)
- tert-Butyl Formate

QC Batch: 349058

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 92330251026

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 1936471)
- tert-Butyl Alcohol
- tert-Butyl Formate

P5: The EPA or method required sample preservation degrades this compound, therefore acceptable recoveries may not be achieved in sample matrix spikes.

- MS (Lab ID: 1936471)
- tert-Butyl Formate

QC Batch: 349325

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 92330679005

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 1937931)
- Ethanol
- tert-Butyl Alcohol
- tert-Butyl Formate

P5: The EPA or method required sample preservation degrades this compound, therefore acceptable recoveries may not be achieved in sample matrix spikes.

- MS (Lab ID: 1937931)
- tert-Butyl Formate

### Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

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## PROJECT NARRATIVE

Project: STEADY SIMMONS 18856/53647  
Pace Project No.: 92330251

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**Method:** EPA 8260  
**Description:** 8260 MSV  
**Client:** SCDHEC  
**Date:** February 23, 2017

### Additional Comments:

Analyte Comments:

QC Batch: 349058

- D3: Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.
- MW-1R (Lab ID: 92330251001)
  - 4-Bromofluorobenzene (S)

This data package has been reviewed for quality and completeness and is approved for release.

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**ANALYTICAL RESULTS**

Project: STEADY SIMMONS 18856/53647  
 Pace Project No.: 92330251

Sample: MW-1R Lab ID: 92330251001 Collected: 02/14/17 12:44 Received: 02/16/17 11:40 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>8011 GCS EDB and DBCP</b>									
Analytical Method: EPA 8011 Preparation Method: EPA 8011									
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	02/20/17 15:12	02/20/17 18:34	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	100	%	60-140		1	02/20/17 15:12	02/20/17 18:34	301-79-56	
<b>8260 MSV</b>									
Analytical Method: EPA 8260									
tert-Amyl Alcohol	ND	ug/L	200	154	2		02/20/17 21:49	75-85-4	
tert-Amylmethyl ether	ND	ug/L	20.0	6.8	2		02/20/17 21:49	994-05-8	
Benzene	5.2J	ug/L	10.0	3.4	2		02/20/17 21:49	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	200	64.2	2		02/20/17 21:49	624-95-3	
tert-Butyl Alcohol	ND	ug/L	200	115	2		02/20/17 21:49	75-65-0	
tert-Butyl Formate	ND	ug/L	100	14.6	2		02/20/17 21:49	762-75-4	
1,2-Dichloroethane	ND	ug/L	10.0	3.6	2		02/20/17 21:49	107-06-2	
Diisopropyl ether	ND	ug/L	10.0	3.4	2		02/20/17 21:49	108-20-3	
Ethanol	ND	ug/L	400	262	2		02/20/17 21:49	64-17-5	
Ethylbenzene	64.0	ug/L	10.0	3.2	2		02/20/17 21:49	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	20.0	7.2	2		02/20/17 21:49	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	10.0	3.4	2		02/20/17 21:49	1634-04-4	
Naphthalene	92.4	ug/L	10.0	4.0	2		02/20/17 21:49	91-20-3	
Toluene	27.1	ug/L	10.0	3.2	2		02/20/17 21:49	108-88-3	
Xylene (Total)	344	ug/L	20.0	5.4	2		02/20/17 21:49	1330-20-7	
m&p-Xylene	163	ug/L	20.0	6.2	2		02/20/17 21:49	179601-23-1	
o-Xylene	181	ug/L	10.0	3.2	2		02/20/17 21:49	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	98	%	70-130		2		02/20/17 21:49	460-00-4	D3
1,2-Dichloroethane-d4 (S)	97	%	70-130		2		02/20/17 21:49	17060-07-0	
Toluene-d8 (S)	103	%	70-130		2		02/20/17 21:49	2037-26-5	

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### ANALYTICAL RESULTS

Project: STEADY SIMMONS 18856/53647

Pace Project No.: 92330251

Sample: MW-2									
Lab ID: 92330251002 Collected: 02/14/17 13:30 Received: 02/16/17 11:40 Matrix: Water									
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>8011 GCS EDB and DBCP</b>									
Analytical Method: EPA 8011 Preparation Method: EPA 8011									
1,2-Dibromoethane (EDB)	1.2	ug/L	0.039	0.039	2	02/20/17 15:12	02/21/17 12:15	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	86	%	60-140		2	02/20/17 15:12	02/21/17 12:15	301-79-56	
<b>8260 MSV</b>									
Analytical Method: EPA 8260									
tert-Amyl Alcohol	ND	ug/L	1000	768	10		02/20/17 22:07	75-85-4	
tert-Amylmethyl ether	ND	ug/L	100	34.0	10		02/20/17 22:07	994-05-8	
Benzene	243	ug/L	50.0	17.0	10		02/20/17 22:07	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	1000	321	10		02/20/17 22:07	624-95-3	
tert-Butyl Alcohol	ND	ug/L	1000	577	10		02/20/17 22:07	75-65-0	
tert-Butyl Formate	ND	ug/L	500	73.0	10		02/20/17 22:07	762-75-4	
1,2-Dichloroethane	ND	ug/L	50.0	18.0	10		02/20/17 22:07	107-06-2	
Diisopropyl ether	ND	ug/L	50.0	17.0	10		02/20/17 22:07	108-20-3	
Ethanol	ND	ug/L	2000	1310	10		02/20/17 22:07	64-17-5	
Ethylbenzene	432	ug/L	50.0	16.0	10		02/20/17 22:07	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	100	36.0	10		02/20/17 22:07	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	50.0	17.0	10		02/20/17 22:07	1634-04-4	
Naphthalene	156	ug/L	50.0	20.0	10		02/20/17 22:07	91-20-3	
Toluene	1770	ug/L	50.0	16.0	10		02/20/17 22:07	108-88-3	
Xylene (Total)	3220	ug/L	100	27.0	10		02/20/17 22:07	1330-20-7	
m&p-Xylene	2030	ug/L	100	31.0	10		02/20/17 22:07	179601-23-1	
o-Xylene	1180	ug/L	50.0	16.0	10		02/20/17 22:07	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	98	%	70-130		10		02/20/17 22:07	460-00-4	
1,2-Dichloroethane-d4 (S)	94	%	70-130		10		02/20/17 22:07	17060-07-0	
Toluene-d8 (S)	98	%	70-130		10		02/20/17 22:07	2037-26-5	

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### ANALYTICAL RESULTS

Project: STEADY SIMMONS 18856/53647

Pace Project No.: 92330251

Sample: MW-3 Lab ID: 92330251003 Collected: 02/14/17 12:12 Received: 02/16/17 11:40 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>8011 GCS EDB and DBCP</b>									
Analytical Method: EPA 8011 Preparation Method: EPA 8011									
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	02/20/17 15:12	02/20/17 19:15	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	92	%	60-140		1	02/20/17 15:12	02/20/17 19:15	301-79-56	
<b>8260 MSV</b>									
Analytical Method: EPA 8260									
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		02/18/17 12:43	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		02/18/17 12:43	994-05-8	
Benzene	7.4	ug/L	5.0	1.7	1		02/18/17 12:43	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		02/18/17 12:43	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		02/18/17 12:43	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		02/18/17 12:43	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		02/18/17 12:43	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		02/18/17 12:43	108-20-3	
Ethanol	ND	ug/L	200	131	1		02/18/17 12:43	64-17-5	
Ethylbenzene	3.1J	ug/L	5.0	1.6	1		02/18/17 12:43	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		02/18/17 12:43	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		02/18/17 12:43	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		02/18/17 12:43	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		02/18/17 12:43	108-88-3	
Xylene (Total)	ND	ug/L	10.0	2.7	1		02/18/17 12:43	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	3.1	1		02/18/17 12:43	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		02/18/17 12:43	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	94	%	70-130		1		02/18/17 12:43	460-00-4	
1,2-Dichloroethane-d4 (S)	98	%	70-130		1		02/18/17 12:43	17060-07-0	
Toluene-d8 (S)	103	%	70-130		1		02/18/17 12:43	2037-26-5	

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### ANALYTICAL RESULTS

Project: STEADY SIMMONS 18856/53647  
Pace Project No.: 92330251

Sample: MW-4									
Lab ID: 92330251004 Collected: 02/14/17 11:37 Received: 02/16/17 11:40 Matrix: Water									
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>8011 GCS EDB and DBCP</b>									
Analytical Method: EPA 8011 Preparation Method: EPA 8011									
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	02/20/17 15:12	02/20/17 19:36	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	96	%	60-140		1	02/20/17 15:12	02/20/17 19:36	301-79-56	
<b>8260 MSV</b>									
Analytical Method: EPA 8260									
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		02/18/17 13:01	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		02/18/17 13:01	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		02/18/17 13:01	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		02/18/17 13:01	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		02/18/17 13:01	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		02/18/17 13:01	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		02/18/17 13:01	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		02/18/17 13:01	108-20-3	
Ethanol	ND	ug/L	200	131	1		02/18/17 13:01	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		02/18/17 13:01	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		02/18/17 13:01	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		02/18/17 13:01	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		02/18/17 13:01	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		02/18/17 13:01	108-88-3	
Xylene (Total)	ND	ug/L	10.0	2.7	1		02/18/17 13:01	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	3.1	1		02/18/17 13:01	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		02/18/17 13:01	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	91	%	70-130		1		02/18/17 13:01	460-00-4	
1,2-Dichloroethane-d4 (S)	97	%	70-130		1		02/18/17 13:01	17060-07-0	
Toluene-d8 (S)	112	%	70-130		1		02/18/17 13:01	2037-26-5	

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**ANALYTICAL RESULTS**

Project: STEADY SIMMONS 18856/53647  
 Pace Project No.: 92330251

Sample: MW-5									
Lab ID: 92330251005 Collected: 02/14/17 10:17 Received: 02/16/17 11:40 Matrix: Water									
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>8011 GCS EDB and DBCP</b> Analytical Method: EPA 8011 Preparation Method: EPA 8011									
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	02/20/17 15:12	02/20/17 20:37	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	100	%	60-140		1	02/20/17 15:12	02/20/17 20:37	301-79-56	
<b>8260 MSV</b> Analytical Method: EPA 8260									
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		02/18/17 13:19	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		02/18/17 13:19	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		02/18/17 13:19	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		02/18/17 13:19	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		02/18/17 13:19	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		02/18/17 13:19	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		02/18/17 13:19	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		02/18/17 13:19	108-20-3	
Ethanol	ND	ug/L	200	131	1		02/18/17 13:19	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		02/18/17 13:19	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		02/18/17 13:19	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		02/18/17 13:19	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		02/18/17 13:19	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		02/18/17 13:19	108-88-3	
Xylene (Total)	ND	ug/L	10.0	2.7	1		02/18/17 13:19	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	3.1	1		02/18/17 13:19	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		02/18/17 13:19	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	93	%	70-130		1		02/18/17 13:19	460-00-4	
1,2-Dichloroethane-d4 (S)	90	%	70-130		1		02/18/17 13:19	17060-07-0	
Toluene-d8 (S)	108	%	70-130		1		02/18/17 13:19	2037-26-5	

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### ANALYTICAL RESULTS

Project: STEADY SIMMONS 18856/53647  
Pace Project No.: 92330251

Sample: MW-6									
Lab ID: 92330251006 Collected: 02/14/17 10:31 Received: 02/16/17 11:40 Matrix: Water									
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>8011 GCS EDB and DBCP</b>									
Analytical Method: EPA 8011 Preparation Method: EPA 8011									
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	02/20/17 15:13	02/20/17 21:18	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	97	%	60-140		1	02/20/17 15:13	02/20/17 21:18	301-79-56	
<b>8260 MSV</b>									
Analytical Method: EPA 8260									
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		02/18/17 13:37	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		02/18/17 13:37	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		02/18/17 13:37	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		02/18/17 13:37	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		02/18/17 13:37	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		02/18/17 13:37	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		02/18/17 13:37	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		02/18/17 13:37	108-20-3	
Ethanol	ND	ug/L	200	131	1		02/18/17 13:37	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		02/18/17 13:37	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		02/18/17 13:37	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		02/18/17 13:37	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		02/18/17 13:37	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		02/18/17 13:37	108-88-3	
Xylene (Total)	ND	ug/L	10.0	2.7	1		02/18/17 13:37	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	3.1	1		02/18/17 13:37	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		02/18/17 13:37	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	94	%	70-130		1		02/18/17 13:37	460-00-4	
1,2-Dichloroethane-d4 (S)	93	%	70-130		1		02/18/17 13:37	17060-07-0	
Toluene-d8 (S)	105	%	70-130		1		02/18/17 13:37	2037-26-5	

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**ANALYTICAL RESULTS**

Project: STEADY SIMMONS 18856/53647  
 Pace Project No.: 92330251

Sample: **MW-7** Lab ID: **92330251007** Collected: 02/14/17 10:50 Received: 02/16/17 11:40 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>8011 GCS EDB and DBCP</b>									
Analytical Method: EPA 8011 Preparation Method: EPA 8011									
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	02/20/17 15:13	02/20/17 21:38	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	97	%	60-140		1	02/20/17 15:13	02/20/17 21:38	301-79-56	
<b>8260 MSV</b>									
Analytical Method: EPA 8260									
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		02/18/17 13:54	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		02/18/17 13:54	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		02/18/17 13:54	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		02/18/17 13:54	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		02/18/17 13:54	75-85-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		02/18/17 13:54	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		02/18/17 13:54	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		02/18/17 13:54	108-20-3	
Ethanol	ND	ug/L	200	131	1		02/18/17 13:54	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		02/18/17 13:54	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		02/18/17 13:54	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		02/18/17 13:54	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		02/18/17 13:54	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		02/18/17 13:54	108-88-3	
Xylene (Total)	ND	ug/L	10.0	2.7	1		02/18/17 13:54	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	3.1	1		02/18/17 13:54	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		02/18/17 13:54	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	92	%	70-130		1		02/18/17 13:54	460-00-4	
1,2-Dichloroethane-d4 (S)	97	%	70-130		1		02/18/17 13:54	17060-07-0	
Toluene-d8 (S)	109	%	70-130		1		02/18/17 13:54	2037-26-5	

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**ANALYTICAL RESULTS**

Project: STEADY SIMMONS 18856/53647  
 Pace Project No.: 92330251

Sample: MW-8 Lab ID: 92330251008 Collected: 02/14/17 11:12 Received: 02/16/17 11:40 Matrix: Water									
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>8011 GCS EDB and DBCP</b> Analytical Method: EPA 8011 Preparation Method: EPA 8011									
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	02/20/17 15:13	02/20/17 21:59	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	76	%	60-140		1	02/20/17 15:13	02/20/17 21:59	301-79-56	
<b>8260 MSV</b> Analytical Method: EPA 8260									
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		02/18/17 14:12	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		02/18/17 14:12	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		02/18/17 14:12	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		02/18/17 14:12	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		02/18/17 14:12	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		02/18/17 14:12	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		02/18/17 14:12	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		02/18/17 14:12	108-20-3	
Ethanol	ND	ug/L	200	131	1		02/18/17 14:12	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		02/18/17 14:12	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		02/18/17 14:12	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		02/18/17 14:12	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		02/18/17 14:12	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		02/18/17 14:12	108-88-3	
Xylene (Total)	ND	ug/L	10.0	2.7	1		02/18/17 14:12	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	3.1	1		02/18/17 14:12	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		02/18/17 14:12	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	93	%	70-130		1		02/18/17 14:12	460-00-4	
1,2-Dichloroethane-d4 (S)	97	%	70-130		1		02/18/17 14:12	17060-07-0	
Toluene-d8 (S)	110	%	70-130		1		02/18/17 14:12	2037-26-5	

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**ANALYTICAL RESULTS**

Project: STEADY SIMMONS 18856/53647

Pace Project No.: 92330251

Sample: MW-9 Lab ID: 92330251009 Collected: 02/14/17 11:35 Received: 02/16/17 11:40 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>8011 GCS EDB and DBCP</b>									
Analytical Method: EPA 8011 Preparation Method: EPA 8011									
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	02/20/17 15:13	02/20/17 22:19	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	87	%	60-140		1	02/20/17 15:13	02/20/17 22:19	301-79-56	
<b>8260 MSV</b>									
Analytical Method: EPA 8260									
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		02/18/17 14:30	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		02/18/17 14:30	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		02/18/17 14:30	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		02/18/17 14:30	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		02/18/17 14:30	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		02/18/17 14:30	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		02/18/17 14:30	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		02/18/17 14:30	108-20-3	
Ethanol	ND	ug/L	200	131	1		02/18/17 14:30	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		02/18/17 14:30	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		02/18/17 14:30	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		02/18/17 14:30	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		02/18/17 14:30	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		02/18/17 14:30	108-88-3	
Xylene (Total)	ND	ug/L	10.0	2.7	1		02/18/17 14:30	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	3.1	1		02/18/17 14:30	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		02/18/17 14:30	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	93	%	70-130		1		02/18/17 14:30	460-00-4	
1,2-Dichloroethane-d4 (S)	95	%	70-130		1		02/18/17 14:30	17060-07-0	
Toluene-d8 (S)	105	%	70-130		1		02/18/17 14:30	2037-26-5	

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### ANALYTICAL RESULTS

Project: STEADY SIMMONS 18856/53647  
Pace Project No.: 92330251

Sample: MW-11									
Lab ID: 92330251010 Collected: 02/15/17 10:00 Received: 02/16/17 11:40 Matrix: Water									
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>8011 GCS EDB and DBCP</b>									
Analytical Method: EPA 8011 Preparation Method: EPA 8011									
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	02/20/17 15:13	02/20/17 22:39	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	93	%	60-140		1	02/20/17 15:13	02/20/17 22:39	301-79-56	
<b>8260 MSV</b>									
Analytical Method: EPA 8260									
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		02/18/17 14:47	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		02/18/17 14:47	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		02/18/17 14:47	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		02/18/17 14:47	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		02/18/17 14:47	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		02/18/17 14:47	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		02/18/17 14:47	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		02/18/17 14:47	108-20-3	
Ethanol	ND	ug/L	200	131	1		02/18/17 14:47	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		02/18/17 14:47	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		02/18/17 14:47	637-92-3	
Methyl-tert-butyl ether	5.2	ug/L	5.0	1.7	1		02/18/17 14:47	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		02/18/17 14:47	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		02/18/17 14:47	108-88-3	
Xylene (Total)	ND	ug/L	10.0	2.7	1		02/18/17 14:47	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	3.1	1		02/18/17 14:47	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		02/18/17 14:47	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	91	%	70-130		1		02/18/17 14:47	460-00-4	
1,2-Dichloroethane-d4 (S)	91	%	70-130		1		02/18/17 14:47	17060-07-0	
Toluene-d8 (S)	107	%	70-130		1		02/18/17 14:47	2037-26-5	

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### ANALYTICAL RESULTS

Project: STEADY SIMMONS 18856/53647

Pace Project No.: 92330251

Sample: MW-12 Lab ID: 92330251011 Collected: 02/14/17 13:40 Received: 02/16/17 11:40 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>8011 GCS EDB and DBCP</b>									
Analytical Method: EPA 8011 Preparation Method: EPA 8011									
1,2-Dibromoethane (EDB)	0.061	ug/L	0.019	0.019	1	02/20/17 15:14	02/20/17 23:00	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	100	%	60-140		1	02/20/17 15:14	02/20/17 23:00	301-79-56	
<b>8260 MSV</b>									
Analytical Method: EPA 8260									
tert-Amyl Alcohol	218	ug/L	200	154	2		02/22/17 12:00	75-85-4	
tert-Amylmethyl ether	ND	ug/L	20.0	6.8	2		02/22/17 12:00	994-05-8	
Benzene	239	ug/L	10.0	3.4	2		02/22/17 12:00	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	200	64.2	2		02/22/17 12:00	624-95-3	
tert-Butyl Alcohol	ND	ug/L	200	115	2		02/22/17 12:00	75-65-0	
tert-Butyl Formate	ND	ug/L	100	14.6	2		02/22/17 12:00	762-75-4	
1,2-Dichloroethane	ND	ug/L	10.0	3.6	2		02/22/17 12:00	107-06-2	
Diisopropyl ether	ND	ug/L	10.0	3.4	2		02/22/17 12:00	108-20-3	
Ethanol	ND	ug/L	400	262	2		02/22/17 12:00	64-17-5	
Ethylbenzene	13.2	ug/L	10.0	3.2	2		02/22/17 12:00	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	20.0	7.2	2		02/22/17 12:00	637-92-3	
Methyl-tert-butyl ether	33.8	ug/L	10.0	3.4	2		02/22/17 12:00	1634-04-4	
Naphthalene	26.8	ug/L	10.0	4.0	2		02/22/17 12:00	91-20-3	
Toluene	4.6J	ug/L	10.0	3.2	2		02/22/17 12:00	108-88-3	
Xylene (Total)	ND	ug/L	20.0	5.4	2		02/22/17 12:00	1330-20-7	
m&p-Xylene	8.9J	ug/L	20.0	6.2	2		02/22/17 12:00	179601-23-1	
o-Xylene	3.8J	ug/L	10.0	3.2	2		02/22/17 12:00	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	100	%	70-130		2		02/22/17 12:00	460-00-4	
1,2-Dichloroethane-d4 (S)	108	%	70-130		2		02/22/17 12:00	17060-07-0	
Toluene-d8 (S)	94	%	70-130		2		02/22/17 12:00	2037-26-5	

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### ANALYTICAL RESULTS

Project: STEADY SIMMONS 18856/53647  
Pace Project No.: 92330251

Sample: MW-13									
Lab ID: 92330251012 Collected: 02/14/17 12:10 Received: 02/16/17 11:40 Matrix: Water									
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>8011 GCS EDB and DBCP</b>									
Analytical Method: EPA 8011 Preparation Method: EPA 8011									
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	0.019	1	02/20/17 15:14	02/20/17 23:20	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	102	%	60-140		1	02/20/17 15:14	02/20/17 23:20	301-79-56	
<b>8260 MSV</b>									
Analytical Method: EPA 8260									
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		02/18/17 15:05	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		02/18/17 15:05	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		02/18/17 15:05	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		02/18/17 15:05	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		02/18/17 15:05	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		02/18/17 15:05	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		02/18/17 15:05	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		02/18/17 15:05	108-20-3	
Ethanol	ND	ug/L	200	131	1		02/18/17 15:05	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		02/18/17 15:05	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		02/18/17 15:05	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		02/18/17 15:05	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		02/18/17 15:05	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		02/18/17 15:05	108-88-3	
Xylene (Total)	ND	ug/L	10.0	2.7	1		02/18/17 15:05	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	3.1	1		02/18/17 15:05	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		02/18/17 15:05	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	96	%	70-130		1		02/18/17 15:05	460-00-4	
1,2-Dichloroethane-d4 (S)	90	%	70-130		1		02/18/17 15:05	17060-07-0	
Toluene-d8 (S)	105	%	70-130		1		02/18/17 15:05	2037-26-5	

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**ANALYTICAL RESULTS**

Project: STEADY SIMMONS 18856/53647  
 Pace Project No.: 92330251

Sample: MW-14									
Lab ID: 92330251013 Collected: 02/14/17 12:50 Received: 02/16/17 11:40 Matrix: Water									
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8011 GCS EDB and DBCP</b>									
Analytical Method: EPA 8011 Preparation Method: EPA 8011									
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	02/20/17 15:14	02/20/17 23:40	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	99	%	60-140		1	02/20/17 15:14	02/20/17 23:40	301-79-56	
<b>8260 MSV</b>									
Analytical Method: EPA 8260									
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		02/18/17 15:23	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		02/18/17 15:23	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		02/18/17 15:23	71-43-2	
3,3-Dimethyl-1-butanol	ND	ug/L	100	32.1	1		02/18/17 15:23	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		02/18/17 15:23	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		02/18/17 15:23	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		02/18/17 15:23	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		02/18/17 15:23	108-20-3	
Ethanol	ND	ug/L	200	131	1		02/18/17 15:23	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		02/18/17 15:23	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		02/18/17 15:23	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		02/18/17 15:23	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		02/18/17 15:23	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		02/18/17 15:23	108-88-3	
Xylene (Total)	ND	ug/L	10.0	2.7	1		02/18/17 15:23	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	3.1	1		02/18/17 15:23	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		02/18/17 15:23	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	95	%	70-130		1		02/18/17 15:23	460-00-4	
1,2-Dichloroethane-d4 (S)	93	%	70-130		1		02/18/17 15:23	17060-07-0	
Toluene-d8 (S)	107	%	70-130		1		02/18/17 15:23	2037-26-5	

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### ANALYTICAL RESULTS

Project: STEADY SIMMONS 18856/53647  
Pace Project No.: 92330251

Sample: MW-15									
Lab ID: 92330251014 Collected: 02/15/17 10:48 Received: 02/16/17 11:40 Matrix: Water									
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8011 GCS EDB and DBCP</b>									
Analytical Method: EPA 8011 Preparation Method: EPA 8011									
<b>Surrogates</b>									
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	02/20/17 15:14	02/21/17 00:01	106-93-4	
1-Chloro-2-bromopropane (S)	98	%	60-140		1	02/20/17 15:14	02/21/17 00:01	301-79-56	
<b>8260 MSV</b>									
Analytical Method: EPA 8260									
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		02/18/17 15:41	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		02/18/17 15:41	994-05-8	
Benzene	2.1J	ug/L	5.0	1.7	1		02/18/17 15:41	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		02/18/17 15:41	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		02/18/17 15:41	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		02/18/17 15:41	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		02/18/17 15:41	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		02/18/17 15:41	108-20-3	
Ethanol	ND	ug/L	200	131	1		02/18/17 15:41	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		02/18/17 15:41	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		02/18/17 15:41	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		02/18/17 15:41	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		02/18/17 15:41	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		02/18/17 15:41	108-88-3	
Xylene (Total)	ND	ug/L	10.0	2.7	1		02/18/17 15:41	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	3.1	1		02/18/17 15:41	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		02/18/17 15:41	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	93	%	70-130		1		02/18/17 15:41	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%	70-130		1		02/18/17 15:41	17060-07-0	
Toluene-d8 (S)	112	%	70-130		1		02/18/17 15:41	2037-26-5	

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**ANALYTICAL RESULTS**

Project: STEADY SIMMONS 18856/53647  
 Pace Project No.: 92330251

Sample: MW-16 Lab ID: 92330251015 Collected: 02/14/17 14:20 Received: 02/16/17 11:40 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>8011 GCS EDB and DBCP</b>									
Analytical Method: EPA 8011 Preparation Method: EPA 8011									
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	02/20/17 15:14	02/21/17 00:21	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	98	%	60-140		1	02/20/17 15:14	02/21/17 00:21	301-79-56	
<b>8260 MSV</b>									
Analytical Method: EPA 8260									
tert-Amyl Alcohol	ND	ug/l	100	76.8	1		02/18/17 15:58	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		02/18/17 15:58	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		02/18/17 15:58	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		02/18/17 15:58	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		02/18/17 15:58	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		02/18/17 15:58	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		02/18/17 15:58	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		02/18/17 15:58	108-20-3	
Ethanol	ND	ug/L	200	131	1		02/18/17 15:58	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		02/18/17 15:58	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		02/18/17 15:58	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		02/18/17 15:58	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		02/18/17 15:58	91-20-3	
Toluene	4.7J	ug/L	5.0	1.6	1		02/18/17 15:58	108-88-3	
Xylene (Total)	ND	ug/L	10.0	2.7	1		02/18/17 15:58	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	3.1	1		02/18/17 15:58	179601-23-1	
o-Xylene	1.9J	ug/L	5.0	1.6	1		02/18/17 15:58	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	95	%	70-130		1		02/18/17 15:58	460-00-4	
1,2-Dichloroethane-d4 (S)	93	%	70-130		1		02/18/17 15:58	17060-07-0	
Toluene-d8 (S)	105	%	70-130		1		02/18/17 15:58	2037-26-5	

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**ANALYTICAL RESULTS**

Project: STEADY SIMMONS 18856/53647  
 Pace Project No.: 92330251

Sample: MW-17      Lab ID: 92330251016      Collected: 02/14/17 10:45      Received: 02/16/17 11:40      Matrix: Water									
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>8011 GCS EDB and DBCP</b> Analytical Method: EPA 8011      Preparation Method: EPA 8011									
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	02/20/17 15:14	02/21/17 00:41	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	101	%	60-140		1	02/20/17 15:14	02/21/17 00:41	301-79-56	
<b>8260 MSV</b> Analytical Method: EPA 8260									
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		02/20/17 22:42	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		02/20/17 22:42	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		02/20/17 22:42	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		02/20/17 22:42	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		02/20/17 22:42	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		02/20/17 22:42	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		02/20/17 22:42	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		02/20/17 22:42	108-20-3	
Ethanol	ND	ug/L	200	131	1		02/20/17 22:42	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		02/20/17 22:42	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		02/20/17 22:42	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		02/20/17 22:42	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		02/20/17 22:42	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		02/20/17 22:42	108-88-3	
Xylene (Total)	ND	ug/L	10.0	2.7	1		02/20/17 22:42	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	3.1	1		02/20/17 22:42	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		02/20/17 22:42	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	94	%	70-130		1		02/20/17 22:42	460-00-4	
1,2-Dichloroethane-d4 (S)	90	%	70-130		1		02/20/17 22:42	17060-07-0	
Toluene-d8 (S)	111	%	70-130		1		02/20/17 22:42	2037-26-5	

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### ANALYTICAL RESULTS

Project: STEADY SIMMONS 18856/53647  
Pace Project No.: 92330251

Sample: DW-1 Lab ID: 92330251017 Collected: 02/14/17 11:19 Received: 02/16/17 11:40 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>8011 GCS EDB and DBCP</b>									
Analytical Method: EPA 8011 Preparation Method: EPA 8011									
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	0.019	1	02/20/17 15:14	02/21/17 01:01	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	97	%	60-140		1	02/20/17 15:14	02/21/17 01:01	301-79-56	
<b>8260 MSV</b>									
Analytical Method: EPA 8260									
tert-Amyl Alcohol	ND	ug/l	100	76.8	1		02/18/17 16:16	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		02/18/17 16:16	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		02/18/17 16:16	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		02/18/17 16:16	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		02/18/17 16:16	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		02/18/17 16:16	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		02/18/17 16:16	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		02/18/17 16:16	108-20-3	
Ethanol	ND	ug/L	200	131	1		02/18/17 16:16	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		02/18/17 16:16	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		02/18/17 16:16	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		02/18/17 16:16	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		02/18/17 16:16	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		02/18/17 16:16	108-88-3	
Xylene (Total)	ND	ug/L	10.0	2.7	1		02/18/17 16:16	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	3.1	1		02/18/17 16:16	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		02/18/17 16:16	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	91	%	70-130		1		02/18/17 16:16	460-00-4	
1,2-Dichloroethane-d4 (S)	91	%	70-130		1		02/18/17 16:16	17060-07-0	
Toluene-d8 (S)	108	%	70-130		1		02/18/17 16:16	2037-26-5	

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### ANALYTICAL RESULTS

Project: STEADY SIMMONS 18856/53647  
Pace Project No.: 92330251

Sample: DW-2									
Lab ID: 92330251018 Collected: 02/14/17 11:46 Received: 02/16/17 11:40 Matrix: Water									
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>8011 GCS EDB and DBCP</b>									
Analytical Method: EPA 8011 Preparation Method: EPA 8011									
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	02/20/17 15:14	02/21/17 01:22	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	93	%	60-140		1	02/20/17 15:14	02/21/17 01:22	301-79-56	
<b>8260 MSV</b>									
Analytical Method: EPA 8260									
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		02/18/17 16:52	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		02/18/17 16:52	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		02/18/17 16:52	71-43-2	M1
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		02/18/17 16:52	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		02/18/17 16:52	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		02/18/17 16:52	762-75-4	M1
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		02/18/17 16:52	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		02/18/17 16:52	108-20-3	
Ethanol	ND	ug/L	200	131	1		02/18/17 16:52	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		02/18/17 16:52	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		02/18/17 16:52	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		02/18/17 16:52	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		02/18/17 16:52	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		02/18/17 16:52	108-88-3	
Xylene (Total)	ND	ug/L	10.0	2.7	1		02/18/17 16:52	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	3.1	1		02/18/17 16:52	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		02/18/17 16:52	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	95	%	70-130		1		02/18/17 16:52	460-00-4	
1,2-Dichloroethane-d4 (S)	93	%	70-130		1		02/18/17 16:52	17060-07-0	
Toluene-d8 (S)	107	%	70-130		1		02/18/17 16:52	2037-26-5	

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### ANALYTICAL RESULTS

Project: STEADY SIMMONS 18856/53647

Pace Project No.: 92330251

Sample: DW-3 Lab ID: 92330251019 Collected: 02/15/17 10:22 Received: 02/16/17 11:40 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>8011 GCS EDB and DBCP</b>									
Analytical Method: EPA 8011 Preparation Method: EPA 8011									
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	02/20/17 15:14	02/21/17 01:42	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	100	%	60-140		1	02/20/17 15:14	02/21/17 01:42	301-79-56	
<b>8260 MSV</b>									
Analytical Method: EPA 8260									
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		02/18/17 14:56	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		02/18/17 14:56	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		02/18/17 14:56	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		02/18/17 14:56	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		02/18/17 14:56	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		02/18/17 14:56	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		02/18/17 14:56	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		02/18/17 14:56	108-20-3	
Ethanol	ND	ug/L	200	131	1		02/18/17 14:56	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		02/18/17 14:56	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		02/18/17 14:56	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		02/18/17 14:56	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		02/18/17 14:56	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		02/18/17 14:56	108-88-3	
Xylene (Total)	ND	ug/L	10.0	2.7	1		02/18/17 14:56	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	3.1	1		02/18/17 14:56	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		02/18/17 14:56	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	97	%	70-130		1		02/18/17 14:56	460-00-4	
1,2-Dichloroethane-d4 (S)	98	%	70-130		1		02/18/17 14:56	17060-07-0	
Toluene-d8 (S)	119	%	70-130		1		02/18/17 14:56	2037-26-5	

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### ANALYTICAL RESULTS

Project: STEADY SIMMONS 18856/53647  
Pace Project No.: 92330251

Sample: DW-4									
Lab ID: 92330251020 Collected: 02/14/17 13:17 Received: 02/16/17 11:40 Matrix: Water									
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8011 GCS EDB and DBCP</b> Analytical Method: EPA 8011 Preparation Method: EPA 8011									
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	02/20/17 15:14	02/21/17 02:02	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	99	%	60-140		1	02/20/17 15:14	02/21/17 02:02	301-79-56	
<b>8260 MSV</b> Analytical Method: EPA 8260									
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		02/20/17 23:00	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		02/20/17 23:00	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		02/20/17 23:00	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		02/20/17 23:00	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		02/20/17 23:00	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		02/20/17 23:00	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		02/20/17 23:00	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		02/20/17 23:00	108-20-3	
Ethanol	ND	ug/L	200	131	1		02/20/17 23:00	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		02/20/17 23:00	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		02/20/17 23:00	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		02/20/17 23:00	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		02/20/17 23:00	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		02/20/17 23:00	108-88-3	
Xylene (Total)	ND	ug/L	10.0	2.7	1		02/20/17 23:00	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	3.1	1		02/20/17 23:00	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		02/20/17 23:00	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	96	%	70-130		1		02/20/17 23:00	460-00-4	
1,2-Dichloroethane-d4 (S)	89	%	70-130		1		02/20/17 23:00	17060-07-0	
Toluene-d8 (S)	109	%	70-130		1		02/20/17 23:00	2037-26-5	

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### ANALYTICAL RESULTS

Project: STEADY SIMMONS 18856/53647  
Pace Project No.: 92330251

Sample: DW-5 Lab ID: 92330251021 Collected: 02/15/17 11:13 Received: 02/16/17 11:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8011 GCS EDB and DBCP</b>									
Analytical Method: EPA 8011 Preparation Method: EPA 8011									
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	02/20/17 15:16	02/21/17 03:44	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	100	%	60-140		1	02/20/17 15:16	02/21/17 03:44	301-79-56	
<b>8260 MSV</b>									
Analytical Method: EPA 8260									
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		02/18/17 15:12	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		02/18/17 15:12	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		02/18/17 15:12	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		02/18/17 15:12	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		02/18/17 15:12	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		02/18/17 15:12	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		02/18/17 15:12	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		02/18/17 15:12	108-20-3	
Ethanol	ND	ug/L	200	131	1		02/18/17 15:12	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		02/18/17 15:12	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		02/18/17 15:12	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		02/18/17 15:12	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		02/18/17 15:12	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		02/18/17 15:12	108-88-3	
Xylene (Total)	ND	ug/L	10.0	2.7	1		02/18/17 15:12	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	3.1	1		02/18/17 15:12	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		02/18/17 15:12	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	98	%	70-130		1		02/18/17 15:12	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	70-130		1		02/18/17 15:12	17060-07-0	
Toluene-d8 (S)	120	%	70-130		1		02/18/17 15:12	2037-26-5	

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### ANALYTICAL RESULTS

Project: STEADY SIMMONS 18856/53647  
Pace Project No.: 92330251

Sample: DW-6									
Lab ID: 92330251022 Collected: 02/14/17 14:45 Received: 02/16/17 11:40 Matrix: Water									
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8011 GCS EDB and DBCP</b> Analytical Method: EPA 8011 Preparation Method: EPA 8011									
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	02/20/17 15:16	02/21/17 04:45	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	97	%	60-140		1	02/20/17 15:16	02/21/17 04:45	301-79-56	
<b>8260 MSV</b> Analytical Method: EPA 8260									
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		02/18/17 15:29	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		02/18/17 15:29	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		02/18/17 15:29	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		02/18/17 15:29	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		02/18/17 15:29	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		02/18/17 15:29	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		02/18/17 15:29	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		02/18/17 15:29	108-20-3	
Ethanol	ND	ug/L	200	131	1		02/18/17 15:29	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		02/18/17 15:29	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		02/18/17 15:29	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		02/18/17 15:29	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		02/18/17 15:29	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		02/18/17 15:29	108-88-3	
Xylene (Total)	ND	ug/L	10.0	2.7	1		02/18/17 15:29	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	3.1	1		02/18/17 15:29	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		02/18/17 15:29	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	95	%	70-130		1		02/18/17 15:29	460-00-4	
1,2-Dichloroethane-d4 (S)	107	%	70-130		1		02/18/17 15:29	17060-07-0	
Toluene-d8 (S)	116	%	70-130		1		02/18/17 15:29	2037-26-5	

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**ANALYTICAL RESULTS**

Project: STEADY SIMMONS 18856/53647  
 Pace Project No.: 92330251

Sample: DW-7      Lab ID: 92330251023      Collected: 02/14/17 13:10      Received: 02/16/17 11:40      Matrix: Water									
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>8011 GCS EDB and DBCP</b> Analytical Method: EPA 8011      Preparation Method: EPA 8011									
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	02/20/17 15:16	02/21/17 05:26	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	101	%	60-140		1	02/20/17 15:16	02/21/17 05:26	301-79-56	
<b>8260 MSV</b> Analytical Method: EPA 8260									
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		02/18/17 15:45	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		02/18/17 15:45	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		02/18/17 15:45	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		02/18/17 15:45	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		02/18/17 15:45	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		02/18/17 15:45	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		02/18/17 15:45	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		02/18/17 15:45	108-20-3	
Ethanol	ND	ug/L	200	131	1		02/18/17 15:45	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		02/18/17 15:45	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		02/18/17 15:45	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		02/18/17 15:45	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		02/18/17 15:45	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		02/18/17 15:45	108-88-3	
Xylene (Total)	ND	ug/L	10.0	2.7	1		02/18/17 15:45	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	3.1	1		02/18/17 15:45	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		02/18/17 15:45	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	95	%	70-130		1		02/18/17 15:45	460-00-4	
1,2-Dichloroethane-d4 (S)	109	%	70-130		1		02/18/17 15:45	17060-07-0	
Toluene-d8 (S)	117	%	70-130		1		02/18/17 15:45	2037-26-5	

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### ANALYTICAL RESULTS

Project: STEADY SIMMONS 18856/53647

Pace Project No.: 92330251

Sample: DW-8									
Lab ID: 92330251024 Collected: 02/14/17 11:12 Received: 02/16/17 11:40 Matrix: Water									
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>8011 GCS EDB and DBCP</b>									
Analytical Method: EPA 8011 Preparation Method: EPA 8011									
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	02/20/17 15:16	02/21/17 05:46	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	100	%	60-140		1	02/20/17 15:16	02/21/17 05:46	301-79-56	
<b>8260 MSV</b>									
Analytical Method: EPA 8260									
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		02/20/17 23:18	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		02/20/17 23:18	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		02/20/17 23:18	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		02/20/17 23:18	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		02/20/17 23:18	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		02/20/17 23:18	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		02/20/17 23:18	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		02/20/17 23:18	108-20-3	
Ethanol	ND	ug/L	200	131	1		02/20/17 23:18	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		02/20/17 23:18	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		02/20/17 23:18	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		02/20/17 23:18	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		02/20/17 23:18	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		02/20/17 23:18	108-88-3	
Xylene (Total)	ND	ug/L	10.0	2.7	1		02/20/17 23:18	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	3.1	1		02/20/17 23:18	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		02/20/17 23:18	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	93	%	70-130		1		02/20/17 23:18	460-00-4	
1,2-Dichloroethane-d4 (S)	94	%	70-130		1		02/20/17 23:18	17060-07-0	
Toluene-d8 (S)	111	%	70-130		1		02/20/17 23:18	2037-26-5	

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### ANALYTICAL RESULTS

Project: STEADY SIMMONS 18856/53647  
Pace Project No.: 92330251

Sample: DUPLICATE 1 Lab ID: 92330251025 Collected: 02/14/17 12:12 Received: 02/16/17 11:40 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>8011 GCS EDB and DBCP</b>									
Analytical Method: EPA 8011 Preparation Method: EPA 8011									
1,2-Dibromoethane (EDB)	0.023	ug/L	0.020	0.020	1	02/20/17 15:16	02/21/17 06:06	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	94	%	60-140		1	02/20/17 15:16	02/21/17 06:06	301-79-56	
<b>8260 MSV</b>									
Analytical Method: EPA 8260									
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		02/20/17 23:36	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		02/20/17 23:36	994-05-8	
Benzene	6.6	ug/L	5.0	1.7	1		02/20/17 23:36	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		02/20/17 23:36	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		02/20/17 23:36	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		02/20/17 23:36	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		02/20/17 23:36	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		02/20/17 23:36	108-20-3	
Ethanol	ND	ug/L	200	131	1		02/20/17 23:36	64-17-5	
Ethylbenzene	3.1J	ug/L	5.0	1.6	1		02/20/17 23:36	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		02/20/17 23:36	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		02/20/17 23:36	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		02/20/17 23:36	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		02/20/17 23:36	108-88-3	
Xylene (Total)	ND	ug/L	10.0	2.7	1		02/20/17 23:36	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	3.1	1		02/20/17 23:36	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		02/20/17 23:36	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	98	%	70-130		1		02/20/17 23:36	460-00-4	
1,2-Dichloroethane-d4 (S)	95	%	70-130		1		02/20/17 23:36	17060-07-0	
Toluene-d8 (S)	103	%	70-130		1		02/20/17 23:36	2037-26-5	

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### ANALYTICAL RESULTS

Project: STEADY SIMMONS 18856/53647  
Pace Project No.: 92330251

Sample: DUPLICATE 2      Lab ID: 92330251026      Collected: 02/15/17 10:48      Received: 02/16/17 11:40      Matrix: Water									
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>8011 GCS EDB and DBCP</b> Analytical Method: EPA 8011      Preparation Method: EPA 8011									
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	02/20/17 15:17	02/21/17 06:27	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	101	%	60-140		1	02/20/17 15:17	02/21/17 06:27	301-79-56	
<b>8260 MSV</b> Analytical Method: EPA 8260									
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		02/21/17 00:11	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		02/21/17 00:11	994-05-8	
Benzene	1.8J	ug/L	5.0	1.7	1		02/21/17 00:11	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		02/21/17 00:11	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		02/21/17 00:11	75-65-0	M1
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		02/21/17 00:11	762-75-4	M1
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		02/21/17 00:11	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		02/21/17 00:11	108-20-3	
Ethanol	ND	ug/L	200	131	1		02/21/17 00:11	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		02/21/17 00:11	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		02/21/17 00:11	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		02/21/17 00:11	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		02/21/17 00:11	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		02/21/17 00:11	108-88-3	
Xylene (Total)	ND	ug/L	10.0	2.7	1		02/21/17 00:11	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	3.1	1		02/21/17 00:11	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		02/21/17 00:11	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	96	%	70-130		1		02/21/17 00:11	460-00-4	
1,2-Dichloroethane-d4 (S)	94	%	70-130		1		02/21/17 00:11	17060-07-0	
Toluene-d8 (S)	109	%	70-130		1		02/21/17 00:11	2037-26-5	

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### ANALYTICAL RESULTS

Project: STEADY SIMMONS 18856/53647

Pace Project No.: 92330251

Sample: FIELD BLANK Lab ID: 92330251027 Collected: 02/14/17 14:40 Received: 02/16/17 11:40 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>8011 GCS EDB and DBCP</b>									
Analytical Method: EPA 8011 Preparation Method: EPA 8011									
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	02/20/17 15:17	02/21/17 06:47	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	101	%	60-140		1	02/20/17 15:17	02/21/17 06:47	301-79-56	
<b>8260 MSV</b>									
Analytical Method: EPA 8260									
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		02/18/17 11:32	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		02/18/17 11:32	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		02/18/17 11:32	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		02/18/17 11:32	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		02/18/17 11:32	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		02/18/17 11:32	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		02/18/17 11:32	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		02/18/17 11:32	108-20-3	
Ethanol	ND	ug/L	200	131	1		02/18/17 11:32	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		02/18/17 11:32	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		02/18/17 11:32	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		02/18/17 11:32	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		02/18/17 11:32	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		02/18/17 11:32	108-88-3	
Xylene (Total)	ND	ug/L	10.0	2.7	1		02/18/17 11:32	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	3.1	1		02/18/17 11:32	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		02/18/17 11:32	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	93	%	70-130		1		02/18/17 11:32	460-00-4	
1,2-Dichloroethane-d4 (S)	93	%	70-130		1		02/18/17 11:32	17060-07-0	
Toluene-d8 (S)	107	%	70-130		1		02/18/17 11:32	2037-26-5	

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### ANALYTICAL RESULTS

Project: STEADY SIMMONS 18856/53647  
Pace Project No.: 92330251

Sample:	Lab ID:	Collected:	Received:	Matrix:					
SW-1	92330251028	02/14/17 10:55	02/16/17 11:40	Water					
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8011 GCS EDB and DBCP</b>									
Analytical Method: EPA 8011 Preparation Method: EPA 8011									
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	02/20/17 15:17	02/21/17 07:07	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	102	%	60-140		1	02/20/17 15:17	02/21/17 07:07	301-79-56	
<b>8260 MSV Low Level SC</b>									
Analytical Method: EPA 8260									
tert-Amyl Alcohol	ND	ug/L	100	50.0	1		02/17/17 18:19	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	0.10	1		02/17/17 18:19	994-05-8	
Benzene	ND	ug/L	1.0	0.25	1		02/17/17 18:19	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	50.0	1		02/17/17 18:19	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	3.6	1		02/17/17 18:19	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	1.9	1		02/17/17 18:19	762-75-4	
1,2-Dichloroethane	ND	ug/L	1.0	0.24	1		02/17/17 18:19	107-06-2	
Diisopropyl ether	ND	ug/L	1.0	0.12	1		02/17/17 18:19	108-20-3	
Ethanol	ND	ug/L	200	131	1		02/17/17 18:19	64-17-5	
Ethylbenzene	ND	ug/L	1.0	0.30	1		02/17/17 18:19	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	0.070	1		02/17/17 18:19	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.21	1		02/17/17 18:19	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.24	1		02/17/17 18:19	91-20-3	
Toluene	ND	ug/L	1.0	0.26	1		02/17/17 18:19	108-88-3	
Xylene (Total)	ND	ug/L	1.0	0.66	1		02/17/17 18:19	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.66	1		02/17/17 18:19	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.23	1		02/17/17 18:19	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	92	%	70-130		1		02/17/17 18:19	460-00-4	
1,2-Dichloroethane-d4 (S)	93	%	70-130		1		02/17/17 18:19	17060-07-0	
Toluene-d8 (S)	106	%	70-130		1		02/17/17 18:19	2037-26-5	

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### ANALYTICAL RESULTS

Project: STEADY SIMMONS 18856/53647

Pace Project No.: 92330251

Sample: SW-2		Lab ID: 92330251029	Collected: 02/14/17 11:00	Received: 02/16/17 11:40	Matrix: Water				
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>8011 GCS EDB and DBCP</b>		Analytical Method: EPA 8011 Preparation Method: EPA 8011							
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	02/20/17 15:17	02/21/17 07:28	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	101	%	60-140		1	02/20/17 15:17	02/21/17 07:28	301-79-56	
<b>8260 MSV Low Level SC</b>		Analytical Method: EPA 8260							
tert-Amyl Alcohol	ND	ug/L	100	50.0	1		02/17/17 18:37	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	0.10	1		02/17/17 18:37	994-05-8	
Benzene	ND	ug/L	1.0	0.25	1		02/17/17 18:37	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	50.0	1		02/17/17 18:37	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	3.6	1		02/17/17 18:37	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	1.9	1		02/17/17 18:37	762-75-4	
1,2-Dichloroethane	ND	ug/L	1.0	0.24	1		02/17/17 18:37	107-06-2	
Diisopropyl ether	ND	ug/L	1.0	0.12	1		02/17/17 18:37	108-20-3	
Ethanol	ND	ug/L	200	131	1		02/17/17 18:37	64-17-5	
Ethylbenzene	ND	ug/L	1.0	0.30	1		02/17/17 18:37	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	0.070	1		02/17/17 18:37	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.21	1		02/17/17 18:37	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.24	1		02/17/17 18:37	91-20-3	
Toluene	ND	ug/L	1.0	0.26	1		02/17/17 18:37	108-88-3	
Xylene (Total)	ND	ug/L	1.0	0.66	1		02/17/17 18:37	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.66	1		02/17/17 18:37	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.23	1		02/17/17 18:37	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	92	%	70-130		1		02/17/17 18:37	460-00-4	
1,2-Dichloroethane-d4 (S)	90	%	70-130		1		02/17/17 18:37	17060-07-0	
Toluene-d8 (S)	107	%	70-130		1		02/17/17 18:37	2037-26-5	

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### ANALYTICAL RESULTS

Project: STEADY SIMMONS 18856/53647  
Pace Project No.: 92330251

Sample: SW-3		Lab ID: 92330251030		Collected: 02/15/17 11:05		Received: 02/16/17 11:40		Matrix: Water	
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>8011 GCS EDB and DBCP</b>		Analytical Method: EPA 8011 Preparation Method: EPA 8011							
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	02/20/17 15:17	02/21/17 07:48	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	104	%	60-140		1	02/20/17 15:17	02/21/17 07:48	301-79-56	
<b>8260 MSV Low Level SC</b>		Analytical Method: EPA 8260							
tert-Amyl Alcohol	ND	ug/L	100	50.0	1		02/17/17 19:13	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	0.10	1		02/17/17 19:13	994-05-8	
Benzene	ND	ug/L	1.0	0.25	1		02/17/17 19:13	71-43-2	M1
3,3-Dimethyl-1-Butanol	ND	ug/L	100	50.0	1		02/17/17 19:13	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	3.6	1		02/17/17 19:13	75-65-0	M1
tert-Butyl Formate	ND	ug/L	50.0	1.9	1		02/17/17 19:13	762-75-4	M1
1,2-Dichloroethane	ND	ug/L	1.0	0.24	1		02/17/17 19:13	107-06-2	
Diisopropyl ether	ND	ug/L	1.0	0.12	1		02/17/17 19:13	108-20-3	
Ethanol	ND	ug/L	200	131	1		02/17/17 19:13	64-17-5	
Ethylbenzene	ND	ug/L	1.0	0.30	1		02/17/17 19:13	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	0.070	1		02/17/17 19:13	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.21	1		02/17/17 19:13	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.24	1		02/17/17 19:13	91-20-3	
Toluene	ND	ug/L	1.0	0.26	1		02/17/17 19:13	108-88-3	
Xylene (Total)	ND	ug/L	1.0	0.66	1		02/17/17 19:13	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.66	1		02/17/17 19:13	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.23	1		02/17/17 19:13	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	94	%	70-130		1		02/17/17 19:13	460-00-4	
1,2-Dichloroethane-d4 (S)	94	%	70-130		1		02/17/17 19:13	17060-07-0	
Toluene-d8 (S)	107	%	70-130		1		02/17/17 19:13	2037-26-5	

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### ANALYTICAL RESULTS

Project: STEADY SIMMONS 18856/53647  
Pace Project No.: 92330251

Sample: FIELD BLANK 2      Lab ID: 92330251031      Collected: 02/15/17 11:20      Received: 02/16/17 11:40      Matrix: Water									
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>8011 GCS EDB and DBCP</b> Analytical Method: EPA 8011      Preparation Method: EPA 8011									
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	02/20/17 15:17	02/21/17 08:08	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	100	%	60-140		1	02/20/17 15:17	02/21/17 08:08	301-79-56	
<b>8260 MSV</b> Analytical Method: EPA 8260									
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		02/18/17 11:50	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		02/18/17 11:50	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		02/18/17 11:50	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		02/18/17 11:50	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		02/18/17 11:50	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		02/18/17 11:50	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		02/18/17 11:50	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		02/18/17 11:50	108-20-3	
Ethanol	ND	ug/L	200	131	1		02/18/17 11:50	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		02/18/17 11:50	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		02/18/17 11:50	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		02/18/17 11:50	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		02/18/17 11:50	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		02/18/17 11:50	108-88-3	
Xylene (Total)	ND	ug/L	10.0	2.7	1		02/18/17 11:50	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	3.1	1		02/18/17 11:50	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		02/18/17 11:50	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	94	%	70-130		1		02/18/17 11:50	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%	70-130		1		02/18/17 11:50	17060-07-0	
Toluene-d8 (S)	108	%	70-130		1		02/18/17 11:50	2037-26-5	

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### ANALYTICAL RESULTS

Project: STEADY SIMMONS 18856/53647

Pace Project No.: 92330251

Sample: TRIP BLANK									
Lab ID: 92330251032									
Collected: 02/14/17 11:21 Received: 02/16/17 11:40 Matrix: Water									
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>									
Analytical Method: EPA 8260									
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		02/18/17 12:08	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		02/18/17 12:08	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		02/18/17 12:08	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		02/18/17 12:08	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		02/18/17 12:08	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		02/18/17 12:08	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		02/18/17 12:08	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		02/18/17 12:08	108-20-3	
Ethanol	ND	ug/L	200	131	1		02/18/17 12:08	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		02/18/17 12:08	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		02/18/17 12:08	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		02/18/17 12:08	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		02/18/17 12:08	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		02/18/17 12:08	108-88-3	
Xylene (Total)	ND	ug/L	10.0	2.7	1		02/18/17 12:08	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	3.1	1		02/18/17 12:08	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		02/18/17 12:08	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	90	%	70-130		1		02/18/17 12:08	460-00-4	
1,2-Dichloroethane-d4 (S)	91	%	70-130		1		02/18/17 12:08	17060-07-0	
Toluene-d8 (S)	110	%	70-130		1		02/18/17 12:08	2037-26-5	

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### ANALYTICAL RESULTS

Project: STEADY SIMMONS 18856/53647

Pace Project No.: 92330251

Sample: TRIP BLANK 2 Lab ID: 92330251033 Collected: 02/15/17 11:21 Received: 02/16/17 11:40 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>8260 MSV</b>									
Analytical Method: EPA 8260									
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		02/18/17 12:25	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		02/18/17 12:25	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		02/18/17 12:25	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		02/18/17 12:25	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		02/18/17 12:25	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		02/18/17 12:25	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		02/18/17 12:25	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		02/18/17 12:25	108-20-3	
Ethanol	ND	ug/L	200	131	1		02/18/17 12:25	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		02/18/17 12:25	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		02/18/17 12:25	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		02/18/17 12:25	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		02/18/17 12:25	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		02/18/17 12:25	108-88-3	
Xylene (Total)	ND	ug/L	10.0	2.7	1		02/18/17 12:25	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	3.1	1		02/18/17 12:25	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		02/18/17 12:25	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	93	%	70-130		1		02/18/17 12:25	460-00-4	
1,2-Dichloroethane-d4 (S)	93	%	70-130		1		02/18/17 12:25	17060-07-0	
Toluene-d8 (S)	105	%	70-130		1		02/18/17 12:25	2037-26-5	

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### QUALITY CONTROL DATA

Project: STEADY SIMMONS 18856/53647  
Pace Project No.: 92330251

QC Batch: 348819 Analysis Method: EPA 8260  
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV Low Level SC  
Associated Lab Samples: 92330251028, 92330251029, 92330251030

METHOD BLANK: 1935433 Matrix: Water  
Associated Lab Samples: 92330251028, 92330251029, 92330251030

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	1.0	0.24	02/17/17 12:07	
3,3-Dimethyl-1-Butanol	ug/L	ND	100	50.0	02/17/17 12:07	
Benzene	ug/L	ND	1.0	0.25	02/17/17 12:07	
Diisopropyl ether	ug/L	ND	1.0	0.12	02/17/17 12:07	
Ethanol	ug/L	ND	200	131	02/17/17 12:07	
Ethyl-tert-butyl ether	ug/L	ND	10.0	0.070	02/17/17 12:07	
Ethylbenzene	ug/L	ND	1.0	0.30	02/17/17 12:07	
m&p-Xylene	ug/L	ND	2.0	0.66	02/17/17 12:07	
Methyl-tert-butyl ether	ug/L	ND	1.0	0.21	02/17/17 12:07	
Naphthalene	ug/L	ND	1.0	0.24	02/17/17 12:07	
o-Xylene	ug/L	ND	1.0	0.23	02/17/17 12:07	
tert-Amyl Alcohol	ug/L	ND	100	50.0	02/17/17 12:07	
tert-Amylmethyl ether	ug/L	ND	10.0	0.10	02/17/17 12:07	
tert-Butyl Alcohol	ug/L	ND	100	3.6	02/17/17 12:07	
tert-Butyl Formate	ug/L	ND	50.0	1.9	02/17/17 12:07	
Toluene	ug/L	ND	1.0	0.26	02/17/17 12:07	
Xylene (Total)	ug/L	ND	1.0	0.66	02/17/17 12:07	
1,2-Dichloroethane-d4 (S)	%	97	70-130		02/17/17 12:07	
4-Bromofluorobenzene (S)	%	95	70-130		02/17/17 12:07	
Toluene-d8 (S)	%	103	70-130		02/17/17 12:07	

LABORATORY CONTROL SAMPLE: 1935434

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	50	50.5	101	70-130	
3,3-Dimethyl-1-Butanol	ug/L	1000	1080	108	70-130	
Benzene	ug/L	50	56.7	113	70-130	
Diisopropyl ether	ug/L	50	57.0	114	70-130	
Ethanol	ug/L	2000	2250	112	70-130	
Ethyl-tert-butyl ether	ug/L	100	114	114	70-130	
Ethylbenzene	ug/L	50	50.7	101	70-130	
m&p-Xylene	ug/L	100	103	103	70-130	
Methyl-tert-butyl ether	ug/L	50	57.7	115	70-130	
Naphthalene	ug/L	50	48.9	98	70-130	
o-Xylene	ug/L	50	50.5	101	70-130	
tert-Amyl Alcohol	ug/L	1000	1080	108	70-130	
tert-Amylmethyl ether	ug/L	100	107	107	70-130	
tert-Butyl Alcohol	ug/L	500	524	105	70-130	
tert-Butyl Formate	ug/L	400	520	130	70-130	
Toluene	ug/L	50	50.9	102	70-130	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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### QUALITY CONTROL DATA

Project: STEADY SIMMONS 18856/53647  
Pace Project No.: 92330251

LABORATORY CONTROL SAMPLE: 1935434

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Xylene (Total)	ug/L	150	153	102	70-130	
1,2-Dichloroethane-d4 (S)	%			105	70-130	
4-Bromofluorobenzene (S)	%			99	70-130	
Toluene-d8 (S)	%			97	70-130	

MATRIX SPIKE SAMPLE: 1935436

Parameter	Units	92330251030 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	ND	20	23.6	117	70-130	
3,3-Dimethyl-1-Butanol	ug/L	ND	400	361	90	70-130	
Benzene	ug/L	ND	20	26.7	134	70-130 M1	
Diisopropyl ether	ug/L	ND	20	23.3	117	70-130	
Ethanol	ug/L	ND	800	762	95	70-130	
Ethyl-tert-butyl ether	ug/L	ND	40	47.1	118	70-130	
Ethylbenzene	ug/L	ND	20	24.9	124	70-130	
m&p-Xylene	ug/L	ND	40	50.6	127	70-130	
Methyl-tert-butyl ether	ug/L	ND	20	23.4	117	70-130	
Naphthalene	ug/L	ND	20	20.3	101	70-130	
o-Xylene	ug/L	ND	20	24.9	125	70-130	
tert-Amyl Alcohol	ug/L	ND	400	363	91	70-130	
tert-Amylmethyl ether	ug/L	ND	40	43.3	108	70-130	
tert-Butyl Alcohol	ug/L	ND	200	272	136	70-130 M1	
tert-Butyl Formate	ug/L	ND	160	4.3J	3	70-130 M1	
Toluene	ug/L	ND	20	24.3	122	70-130	
1,2-Dichloroethane-d4 (S)	%				103	70-130	
4-Bromofluorobenzene (S)	%				102	70-130	
Toluene-d8 (S)	%				98	70-130	

SAMPLE DUPLICATE: 1935435

Parameter	Units	92330251029 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2-Dichloroethane	ug/L	ND	ND		30	
3,3-Dimethyl-1-Butanol	ug/L	ND	ND		30	
Benzene	ug/L	ND	ND		30	
Diisopropyl ether	ug/L	ND	ND		30	
Ethanol	ug/L	ND	ND		30	
Ethyl-tert-butyl ether	ug/L	ND	ND		30	
Ethylbenzene	ug/L	ND	ND		30	
m&p-Xylene	ug/L	ND	ND		30	
Methyl-tert-butyl ether	ug/L	ND	ND		30	
Naphthalene	ug/L	ND	ND		30	
o-Xylene	ug/L	ND	ND		30	
tert-Amyl Alcohol	ug/L	ND	ND		30	
tert-Amylmethyl ether	ug/L	ND	ND		30	

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### QUALITY CONTROL DATA

Project: STEADY SIMMONS 18856/53647  
Pace Project No.: 92330251

SAMPLE DUPLICATE: 1935435

Parameter	Units	92330251029 Result	Dup Result	RPD	Max RPD	Qualifiers
tert-Butyl Alcohol	ug/L	ND	ND		30	
tert-Butyl Formate	ug/L	ND	ND		30	
Toluene	ug/L	ND	ND		30	
Xylene (Total)	ug/L	ND	ND		30	
1,2-Dichloroethane-d4 (S)	%	90	92	3		
4-Bromofluorobenzene (S)	%	92	91	0		
Toluene-d8 (S)	%	107	106	1		

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**QUALITY CONTROL DATA**

Project: STEADY SIMMONS 18856/53647  
 Pace Project No.: 92330251

QC Batch: 348873 Analysis Method: EPA 8260  
 QC Batch Method: EPA 8200 Analysis Description: 0260 MSV GC  
 Associated Lab Samples: 92330251003, 92330251004, 92330251005, 92330251006, 92330251007, 92330251008, 92330251009,  
 92330251010, 92330251012, 92330251013, 92330251014, 92330251015, 92330251017, 92330251018,  
 92330251027, 92330251031, 92330251032, 92330251033

METHOD BLANK: 1935752 Matrix: Water  
 Associated Lab Samples: 92330251003, 92330251004, 92330251005, 92330251006, 92330251007, 92330251008, 92330251009,  
 92330251010, 92330251012, 92330251013, 92330251014, 92330251015, 92330251017, 92330251018,  
 92330251027, 92330251031, 92330251032, 92330251033

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	5.0	1.8	02/18/17 10:21	
3,3-Dimethyl-1-Butanol	ug/L	ND	100	32.1	02/18/17 10:21	
Benzene	ug/L	ND	5.0	1.7	02/18/17 10:21	
Diisopropyl ether	ug/L	ND	5.0	1.7	02/18/17 10:21	
Ethanol	ug/L	ND	200	131	02/18/17 10:21	
Ethyl-tert-butyl ether	ug/L	ND	10.0	3.6	02/18/17 10:21	
Ethylbenzene	ug/L	ND	5.0	1.6	02/18/17 10:21	
m&p-Xylene	ug/L	ND	10.0	3.1	02/18/17 10:21	
Methyl-tert-butyl ether	ug/L	ND	5.0	1.7	02/18/17 10:21	
Naphthalene	ug/L	ND	5.0	2.0	02/18/17 10:21	
o-Xylene	ug/L	ND	5.0	1.6	02/18/17 10:21	
tert-Amyl Alcohol	ug/L	ND	100	76.8	02/18/17 10:21	
tert-Amylmethyl ether	ug/L	ND	10.0	3.4	02/18/17 10:21	
tert-Butyl Alcohol	ug/L	ND	100	57.7	02/18/17 10:21	
tert-Butyl Formate	ug/L	ND	50.0	7.3	02/18/17 10:21	
Toluene	ug/L	ND	5.0	1.6	02/18/17 10:21	
Xylene (Total)	ug/L	ND	10.0	2.7	02/18/17 10:21	
1,2-Dichloroethane-d4 (S)	%	93	70-130		02/18/17 10:21	
4-Bromofluorobenzene (S)	%	93	70-130		02/18/17 10:21	
Toluene-d8 (S)	%	106	70-130		02/18/17 10:21	

LABORATORY CONTROL SAMPLE: 1935753

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	50	50.0	100	70-130	
3,3-Dimethyl-1-Butanol	ug/L	1000	804	80	70-130	
Benzene	ug/L	50	55.6	111	70-130	
Diisopropyl ether	ug/L	50	54.0	108	70-130	
Ethanol	ug/L	2000	1720	86	70-130	
Ethyl-tert-butyl ether	ug/L	100	109	109	70-130	
Ethylbenzene	ug/L	50	49.4	99	70-130	
m&p-Xylene	ug/L	100	101	101	70-130	
Methyl-tert-butyl ether	ug/L	50	53.8	108	70-130	
Naphthalene	ug/L	50	44.0	88	70-130	
o-Xylene	ug/L	50	49.9	100	70-130	
tert-Amyl Alcohol	ug/L	1000	773	77	70-130	

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**QUALITY CONTROL DATA**

Project: STEADY SIMMONS 18856/53647  
Pace Project No.: 92330251

LABORATORY CONTROL SAMPLE: 1935753

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
tert-Amylmethyl ether	ug/L	100	98.4	98	70-130	
tert-Butyl Alcohol	ug/L	500	371	74	70-130	
tert-Butyl Formate	ug/L	400	473	118	70-130	
Toluene	ug/L	50	50.1	100	70-130	
Xylene (Total)	ug/L	150	151	101	70-130	
1,2-Dichloroethane-d4 (S)	%			98	70-130	
4-Bromofluorobenzene (S)	%			100	70-130	
Toluene-d8 (S)	%			96	70-130	

MATRIX SPIKE SAMPLE: 1935755

Parameter	Units	92330251018 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	ND	20	22.6	113	70-130	
3,3-Dimethyl-1-Butanol	ug/L	ND	400	289	72	70-130	
Benzene	ug/L	ND	20	26.6	133	70-130 M1	
Diisopropyl ether	ug/L	ND	20	22.4	112	70-130	
Ethanol	ug/L	ND	800	720	90	70-130	
Ethyl-tert-butyl ether	ug/L	ND	40	43.7	109	70-130	
Ethylbenzene	ug/L	ND	20	23.0	115	70-130	
m&p-Xylene	ug/L	ND	40	45.6	114	70-130	
Methyl-tert-butyl ether	ug/L	ND	20	21.1	105	70-130	
Naphthalene	ug/L	ND	20	20.1	100	70-130	
o-Xylene	ug/L	ND	20	22.8	114	70-130	
tert-Amyl Alcohol	ug/L	ND	400	297	74	70-130	
tert-Amylmethyl ether	ug/L	ND	40	40.8	102	70-130	
tert-Butyl Alcohol	ug/L	ND	200	220	110	70-130	
tert-Butyl Formate	ug/L	ND	160	ND	0	70-130 M1,P5	
Toluene	ug/L	ND	20	23.8	119	70-130	
1,2-Dichloroethane-d4 (S)	%				99	70-130	
4-Bromofluorobenzene (S)	%				97	70-130	
Toluene-d8 (S)	%				100	70-130	

SAMPLE DUPLICATE: 1935754

Parameter	Units	92330251017 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2-Dichloroethane	ug/L	ND	ND		30	
3,3-Dimethyl-1-Butanol	ug/L	ND	ND		30	
Benzene	ug/L	ND	ND		30	
Diisopropyl ether	ug/L	ND	ND		30	
Ethanol	ug/L	ND	ND		30	
Ethyl-tert-butyl ether	ug/L	ND	ND		30	
Ethylbenzene	ug/L	ND	ND		30	
m&p-Xylene	ug/L	ND	ND		30	
Methyl-tert-butyl ether	ug/L	ND	ND		30	

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**QUALITY CONTROL DATA**

Project: STEADY SIMMONS 18856/53647  
Pace Project No.: 92330251

SAMPLE DUPLICATE: 1935754

Parameter	Units	92330251017 Result	Dup Result	RPD	Max RPD	Qualifiers
Naphthalene	ug/L	ND	ND		30	
o-Xylene	ug/L	ND	ND		30	
tert-Amyl Alcohol	ug/L	ND	ND		30	
tert-Amylmethyl ether	ug/L	ND	ND		30	
tert-Butyl Alcohol	ug/L	ND	ND		30	
tert-Butyl Formate	ug/L	ND	ND		30	
Toluene	ug/L	ND	ND		30	
Xylene (Total)	ug/L	ND	ND		30	
1,2-Dichloroethane-d4 (S)	%	91	93	3		
4-Bromofluorobenzene (S)	%	91	89	2		
Toluene-d8 (S)	%	108	105	2		

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### QUALITY CONTROL DATA

Project: STEADY SIMMONS 18856/53647  
Pace Project No.: 92330251

QC Batch: 348888 Analysis Method: EPA 8260  
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV SC  
Associated Lab Samples: 92330251019, 92330251021, 92330251022, 92330251023

METHOD BLANK: 1935949 Matrix: Water  
Associated Lab Samples: 92330251019, 92330251021, 92330251022, 92330251023

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	5.0	1.8	02/18/17 13:51	
3,3-Dimethyl-1-Butanol	ug/L	ND	100	32.1	02/18/17 13:51	
Benzene	ug/L	ND	5.0	1.7	02/18/17 13:51	
Diisopropyl ether	ug/L	ND	5.0	1.7	02/18/17 13:51	
Ethanol	ug/L	ND	200	131	02/18/17 13:51	
Ethyl-tert-butyl ether	ug/L	ND	10.0	3.6	02/18/17 13:51	
Ethylbenzene	ug/L	ND	5.0	1.6	02/18/17 13:51	
m&p-Xylene	ug/L	ND	10.0	3.1	02/18/17 13:51	
Methyl-tert-butyl ether	ug/L	ND	5.0	1.7	02/18/17 13:51	
Naphthalene	ug/L	ND	5.0	2.0	02/18/17 13:51	
o-Xylene	ug/L	ND	5.0	1.6	02/18/17 13:51	
tert-Amyl Alcohol	ug/L	ND	100	76.8	02/18/17 13:51	
tert-Amylmethyl ether	ug/L	ND	10.0	3.4	02/18/17 13:51	
tert-Butyl Alcohol	ug/L	ND	100	57.7	02/18/17 13:51	
tert-Butyl Formate	ug/L	ND	50.0	7.3	02/18/17 13:51	
Toluene	ug/L	ND	5.0	1.6	02/18/17 13:51	
Xylene (Total)	ug/L	ND	10.0	2.7	02/18/17 13:51	
1,2-Dichloroethane-d4 (S)	%	114	70-130		02/18/17 13:51	
4-Bromofluorobenzene (S)	%	104	70-130		02/18/17 13:51	
Toluene-d8 (S)	%	121	70-130		02/18/17 13:51	

LABORATORY CONTROL SAMPLE: 1935950

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	50	52.5	105	70-130	
3,3-Dimethyl-1-Butanol	ug/L	1000	1060	106	70-130	
Benzene	ug/L	50	52.5	105	70-130	
Diisopropyl ether	ug/L	50	49.0	98	70-130	
Ethanol	ug/L	2000	2330	116	70-130	
Ethyl-tert-butyl ether	ug/L	100	101	101	70-130	
Ethylbenzene	ug/L	50	45.9	92	70-130	
m&p-Xylene	ug/L	100	92.8	93	70-130	
Methyl-tert-butyl ether	ug/L	50	52.9	106	70-130	
Naphthalene	ug/L	50	47.2	94	70-130	
o-Xylene	ug/L	50	46.5	93	70-130	
tert-Amyl Alcohol	ug/L	1000	1100	110	70-130	
tert-Amylmethyl ether	ug/L	100	98.4	98	70-130	
tert-Butyl Alcohol	ug/L	500	527	105	70-130	
tert-Butyl Formate	ug/L	400	483	121	70-130	
Toluene	ug/L	50	51.8	104	70-130	

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### QUALITY CONTROL DATA

Project: STEADY SIMMONS 18856/53647  
Pace Project No.: 92330251

LABORATORY CONTROL SAMPLE: 1935950

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Xylene (Total)	ug/L	150	139	93	70-130	
1,2-Dichloroethane-d4 (S)	%			95	70-130	
4-Bromofluorobenzene (S)	%			100	70-130	
Toluene-d8 (S)	%			95	70-130	

MATRIX SPIKE SAMPLE: 1935952

Parameter	Units	92330454004 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	ND	20	34.1	171	70-130	M1
3,3-Dimethyl-1-Butanol	ug/L	ND	400	275	69	70-130	M1
Benzene	ug/L	ND	20	33.2	166	70-130	M1
Diisopropyl ether	ug/L	ND	20	31.0	155	70-130	M1
Ethanol	ug/L	ND	800	723	90	70-130	
Ethyl-tert-butyl ether	ug/L	ND	40	58.5	146	70-130	M1
Ethylbenzene	ug/L	ND	20	30.1	150	70-130	M1
m&p-Xylene	ug/L	ND	40	59.6	148	70-130	M1
Methyl-tert-butyl ether	ug/L	ND	20	27.2	136	70-130	M1
Naphthalene	ug/L	ND	20	21.8	109	70-130	
o-Xylene	ug/L	ND	20	29.6	147	70-130	M1
tert-Amyl Alcohol	ug/L	ND	400	284	71	70-130	
tert-Amylmethyl ether	ug/L	ND	40	54.0	135	70-130	M1
tert-Butyl Alcohol	ug/L	ND	200	154	77	70-130	
tert-Butyl Formate	ug/L	ND	160	ND	0	70-130	M1,P5
Toluene	ug/L	ND	20	34.1	170	70-130	M1
1,2-Dichloroethane-d4 (S)	%				115	70-130	
4-Bromofluorobenzene (S)	%				101	70-130	
Toluene-d8 (S)	%				104	70-130	

SAMPLE DUPLICATE: 1935951

Parameter	Units	92330454003 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2-Dichloroethane	ug/L	ND	ND		30	
3,3-Dimethyl-1-Butanol	ug/L	ND	ND		30	
Benzene	ug/L	ND	ND		30	
Diisopropyl ether	ug/L	ND	ND		30	
Ethanol	ug/L	ND	ND		30	
Ethyl-tert-butyl ether	ug/L	ND	ND		30	
Ethylbenzene	ug/L	ND	ND		30	
m&p-Xylene	ug/L	ND	ND		30	
Methyl-tert-butyl ether	ug/L	ND	ND		30	
Naphthalene	ug/L	ND	ND		30	
o-Xylene	ug/L	ND	ND		30	
tert-Amyl Alcohol	ug/L	ND	ND		30	
tert-Amylmethyl ether	ug/L	ND	ND		30	

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### QUALITY CONTROL DATA

Project: STEADY SIMMONS 18856/53647  
Pace Project No.: 92330251

SAMPLE DUPLICATE: 1935951

Parameter	Units	92330454003 Result	Dup Result	RPD	Max RPD	Qualifiers
tert-Butyl Alcohol	ug/L	ND	ND		30	
tert-Butyl Formate	ug/L	ND	ND		30	
Toluene	ug/L	ND	ND		30	
Xylene (Total)	ug/L	ND	ND		30	
1,2-Dichloroethane-d4 (S)	%	105	102	2		
4-Bromofluorobenzene (S)	%	96	95	0		
Toluene-d8 (S)	%	117	120	2		

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### QUALITY CONTROL DATA

Project: STEADY SIMMONS 18856/53647  
Pace Project No.: 92330251

QC Batch: 349058 Analysis Method: EPA 8260  
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV SC  
Associated Lab Samples: 92330251001, 92330251002, 92330251016, 92330251020, 92330251024, 92330251025, 92330251026

METHOD BLANK: 1936468 Matrix: Water  
Associated Lab Samples: 92330251001, 92330251002, 92330251016, 92330251020, 92330251024, 92330251025, 92330251026

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	5.0	1.8	02/20/17 15:19	
3,3-Dimethyl-1-Butanol	ug/L	ND	100	32.1	02/20/17 15:19	
Benzene	ug/L	ND	5.0	1.7	02/20/17 15:19	
Diisopropyl ether	ug/L	ND	5.0	1.7	02/20/17 15:19	
Ethanol	ug/L	ND	200	131	02/20/17 15:19	
Ethyl-tert-butyl ether	ug/L	ND	10.0	3.6	02/20/17 15:19	
Ethylbenzene	ug/L	ND	5.0	1.6	02/20/17 15:19	
m&p-Xylene	ug/L	ND	10.0	3.1	02/20/17 15:19	
Methyl-tert-butyl ether	ug/L	ND	5.0	1.7	02/20/17 15:19	
Naphthalene	ug/L	ND	5.0	2.0	02/20/17 15:19	
o-Xylene	ug/L	ND	5.0	1.6	02/20/17 15:19	
tert-Amyl Alcohol	ug/L	ND	100	76.8	02/20/17 15:19	
tert-Amylmethyl ether	ug/L	ND	10.0	3.4	02/20/17 15:19	
tert-Butyl Alcohol	ug/L	ND	100	57.7	02/20/17 15:19	
tert-Butyl Formate	ug/L	ND	50.0	7.3	02/20/17 15:19	
Toluene	ug/L	ND	5.0	1.6	02/20/17 15:19	
Xylene (Total)	ug/L	ND	10.0	2.7	02/20/17 15:19	
1,2-Dichloroethane-d4 (S)	%	97	70-130		02/20/17 15:19	
4-Bromofluorobenzene (S)	%	94	70-130		02/20/17 15:19	
Toluene-d8 (S)	%	104	70-130		02/20/17 15:19	

LABORATORY CONTROL SAMPLE: 1936469

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	50	48.7	97	70-130	
3,3-Dimethyl-1-Butanol	ug/L	1000	1050	105	70-130	
Benzene	ug/L	50	51.5	103	70-130	
Diisopropyl ether	ug/L	50	53.4	107	70-130	
Ethanol	ug/L	2000	2420	121	70-130	
Ethyl-tert-butyl ether	ug/L	100	111	111	70-130	
Ethylbenzene	ug/L	50	51.1	102	70-130	
m&p-Xylene	ug/L	100	105	105	70-130	
Methyl-tert-butyl ether	ug/L	50	54.4	109	70-130	
Naphthalene	ug/L	50	50.3	101	70-130	
o-Xylene	ug/L	50	52.9	106	70-130	
tert-Amyl Alcohol	ug/L	1000	1030	103	70-130	
tert-Amylmethyl ether	ug/L	100	104	104	70-130	
tert-Butyl Alcohol	ug/L	500	485	97	70-130	
tert-Butyl Formate	ug/L	400	444	111	70-130	
Toluene	ug/L	50	47.3	95	70-130	

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### QUALITY CONTROL DATA

Project: STEADY SIMMONS 18856/53647  
Pace Project No.: 92330251

LABORATORY CONTROL SAMPLE: 1936469

Parameter	Units	Spike Conc.	I CS Result	I CS % Rec	% Rec Limits	Qualifiers
Xylene (Total)	ug/L	150	158	106	70-130	
1,2-Dichloroethane-d4 (S)	%			99	70-130	
4-Bromofluorobenzene (S)	%			105	70-130	
Toluene-d8 (S)	%			94	70-130	

MATRIX SPIKE SAMPLE: 1936471

Parameter	Units	92330251026 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	ND	20	21.3	107	70-130	
3,3-Dimethyl-1-Butanol	ug/L	ND	400	433	108	70-130	
Benzene	ug/L	1.8J	20	23.0	106	70-130	
Diisopropyl ether	ug/L	ND	20	20.8	104	70-130	
Ethanol	ug/L	ND	800	744	93	70-130	
Ethyl-tert-butyl ether	ug/L	ND	40	43.8	110	70-130	
Ethylbenzene	ug/L	ND	20	22.5	108	70-130	
m&p-Xylene	ug/L	ND	40	45.2	112	70-130	
Methyl-tert-butyl ether	ug/L	ND	20	21.3	106	70-130	
Naphthalene	ug/L	ND	20	21.7	100	70-130	
o-Xylene	ug/L	ND	20	23.0	112	70-130	
tert-Amyl Alcohol	ug/L	ND	400	470	117	70-130	
tert-Amylmethyl ether	ug/L	ND	40	42.9	107	70-130	
tert-Butyl Alcohol	ug/L	ND	200	328	164	70-130 M1	
tert-Butyl Formate	ug/L	ND	160	ND	0	70-130 M1,P5	
Toluene	ug/L	ND	20	21.0	105	70-130	
1,2-Dichloroethane-d4 (S)	%				101	70-130	
4-Bromofluorobenzene (S)	%				105	70-130	
Toluene-d8 (S)	%				98	70-130	

SAMPLE DUPLICATE: 1936470

Parameter	Units	92330251025 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2-Dichloroethane	ug/L	ND	ND		30	
3,3-Dimethyl-1-Butanol	ug/L	ND	ND		30	
Benzene	ug/L	6.6	6.7	3	30	
Diisopropyl ether	ug/L	ND	ND		30	
Ethanol	ug/L	ND	ND		30	
Ethyl-tert-butyl ether	ug/L	ND	ND		30	
Ethylbenzene	ug/L	3.1J	2.9J		30	
m&p-Xylene	ug/L	ND	ND		30	
Methyl-tert-butyl ether	ug/L	ND	ND		30	
Naphthalene	ug/L	ND	ND		30	
o-Xylene	ug/L	ND	ND		30	
tert-Amyl Alcohol	ug/L	ND	ND		30	
tert-Amylmethyl ether	ug/L	ND	ND		30	

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### REPORT OF LABORATORY ANALYSIS

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**QUALITY CONTROL DATA**

Project: STEADY SIMMONS 18856/53647

Pace Project No.: 92330251

SAMPLE DUPLICATE: 1936470

Parameter	Units	92330251025 Result	Dup Result	RPD	Max RPD	Qualifiers
tert-Butyl Alcohol	ug/L	ND	ND		30	
tert-Butyl Formate	ug/L	ND	ND		30	
Toluene	ug/L	ND	ND		30	
Xylene (Total)	ug/L	ND	ND		30	
1,2-Dichloroethane-d4 (S)	%	95	95	0		
4-Bromofluorobenzene (S)	%	98	92	6		
Toluene-d8 (S)	%	103	104	1		

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### QUALITY CONTROL DATA

Project: STEADY SIMMONS 18856/53647  
Pace Project No.: 92330251

QC Batch: 349325 Analysis Method: EPA 8260  
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV SC  
Associated Lab Samples: 92330251011

METHOD BLANK: 1937928 Matrix: Water  
Associated Lab Samples: 92330251011

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	5.0	1.8	02/22/17 10:34	
3,3-Dimethyl-1-Butanol	ug/L	ND	100	32.1	02/22/17 10:34	
Benzene	ug/L	ND	5.0	1.7	02/22/17 10:34	
Diisopropyl ether	ug/L	ND	5.0	1.7	02/22/17 10:34	
Ethanol	ug/L	ND	200	131	02/22/17 10:34	
Ethyl-tert-butyl ether	ug/L	ND	10.0	3.6	02/22/17 10:34	
Ethylbenzene	ug/L	ND	5.0	1.6	02/22/17 10:34	
m&p-Xylene	ug/L	ND	10.0	3.1	02/22/17 10:34	
Methyl-tert-butyl ether	ug/L	ND	5.0	1.7	02/22/17 10:34	
Naphthalene	ug/L	ND	5.0	2.0	02/22/17 10:34	
o-Xylene	ug/L	ND	5.0	1.6	02/22/17 10:34	
tert-Amyl Alcohol	ug/L	ND	100	76.8	02/22/17 10:34	
tert-Amylmethyl ether	ug/L	ND	10.0	3.4	02/22/17 10:34	
tert-Butyl Alcohol	ug/L	ND	100	57.7	02/22/17 10:34	
tert-Butyl Formate	ug/L	ND	50.0	7.3	02/22/17 10:34	
Toluene	ug/L	ND	5.0	1.6	02/22/17 10:34	
Xylene (Total)	ug/L	ND	10.0	2.7	02/22/17 10:34	
1,2-Dichloroethane-d4 (S)	%	103	70-130		02/22/17 10:34	
4-Bromofluorobenzene (S)	%	99	70-130		02/22/17 10:34	
Toluene-d8 (S)	%	102	70-130		02/22/17 10:34	

LABORATORY CONTROL SAMPLE: 1037920

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	50	47.8	96	70-130	
3,3-Dimethyl-1-Butanol	ug/L	1000	1100	110	70-130	
Benzene	ug/L	50	51.6	103	70-130	
Diisopropyl ether	ug/L	50	48.3	97	70-130	
Ethanol	ug/L	2000	2480	124	70-130	
Ethyl-tert-butyl ether	ug/L	100	99.7	100	70-130	
Ethylbenzene	ug/L	50	47.8	96	70-130	
m&p-Xylene	ug/L	100	96.6	97	70-130	
Methyl-tert-butyl ether	ug/L	50	49.7	99	70-130	
Naphthalene	ug/L	50	49.3	99	70-130	
o-Xylene	ug/L	50	48.8	98	70-130	
tert-Amyl Alcohol	ug/L	1000	1060	106	70-130	
tert-Amylmethyl ether	ug/L	100	101	101	70-130	
tert-Butyl Alcohol	ug/L	500	508	102	70-130	
tert-Butyl Formate	ug/L	400	425	106	70-130	
Toluene	ug/L	50	50.2	100	70-130	

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### QUALITY CONTROL DATA

Project: STEADY SIMMONS 18856/53647  
Pace Project No.: 92330251

LABORATORY CONTROL SAMPLE: 1937929

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Xylene (Total)	ug/L	150	145	97	70-130	
1,2-Dichloroethane-d4 (S)	%			96	70-130	
4-Bromofluorobenzene (S)	%			105	70-130	
Toluene-d8 (S)	%			100	70-130	

MATRIX SPIKE SAMPLE: 1937931

Parameter	Units	92330679005 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	ND	20	21.3	107	70-130	
3,3-Dimethyl-1-Butanol	ug/L	ND	400	465	116	70-130	
Benzene	ug/L	ND	20	22.9	115	70-130	
Diisopropyl ether	ug/L	ND	20	25.1	125	70-130	
Ethanol	ug/L	ND	800	1320	164	70-130 M1	
Ethyl-tert-butyl ether	ug/L	ND	40	46.1	115	70-130	
Ethylbenzene	ug/L	ND	20	20.8	104	70-130	
m&p-Xylene	ug/L	ND	40	41.7	104	70-130	
Methyl-tert-butyl ether	ug/L	ND	20	24.0	120	70-130	
Naphthalene	ug/L	ND	20	19.8	99	70-130	
o-Xylene	ug/L	ND	20	20.9	104	70-130	
tert-Amyl Alcohol	ug/L	ND	400	500	125	70-130	
tert-Amylmethyl ether	ug/L	ND	40	43.9	110	70-130	
tert-Butyl Alcohol	ug/L	ND	200	393	197	70-130 M1	
tert-Butyl Formate	ug/L	ND	160	ND	0	70-130 M1,P5	
Toluene	ug/L	ND	20	21.6	107	70-130	
1,2-Dichloroethane-d4 (S)	%				95	70-130	
4-Bromofluorobenzene (S)	%				106	70-130	
Toluene d8 (S)	%				99	70-130	

SAMPLE DUPLICATE: 1937930

Parameter	Units	92330454022 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2-Dichloroethane	ug/L	ND	ND			30
3,3-Dimethyl-1-Butanol	ug/L	ND	ND			30
Benzene	ug/L	11800	12300	4		30
Diisopropyl ether	ug/L	ND	ND			30
Ethanol	ug/L	ND	ND			30
Ethyl-tert-butyl ether	ug/L	368J	370J			30
Ethylbenzene	ug/L	1850	1910	3		30
m&p-Xylene	ug/L	1860	1930	3		30
Methyl-tert-butyl ether	ug/L	5400	4750	13		30
Naphthalene	ug/L	342J	319J			30
o-Xylene	ug/L	ND	ND			30
tert-Amyl Alcohol	ug/L	ND	ND			30
tert-Amylmethyl ether	ug/L	982J	962J			30

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### QUALITY CONTROL DATA

Project: STEADY SIMMONS 18856/53647  
Pace Project No.: 92330251

SAMPLE DUPLICATE: 1937930

Parameter	Units	92330454022 Result	Dup Result	RPD	Max RPD	Qualifiers
tert-Butyl Alcohol	ug/L	17300	15100	14	30	
tert-Butyl Formate	ug/L	ND	ND		30	
Toluene	ug/L	ND	ND		30	
Xylene (Total)	ug/L	1860	1930	3	30	
1,2-Dichloroethane-d4 (S)	%	101	103	2		
4-Bromofluorobenzene (S)	%	100	101	1		
Toluene-d8 (S)	%	97	97	0		

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### QUALITY CONTROL DATA

Project: STEADY SIMMONS 18856/53647  
Pace Project No.: 92330251

QC Batch: 348956 Analysis Method: EPA 8011  
QC Batch Method: EPA 8011 Analysis Description: GCS 8011 EDB DBCP  
Associated Lab Samples: 92330251001, 92330251002, 92330251003, 92330251004, 92330251005, 92330251006, 92330251007, 92330251008, 92330251009, 92330251010, 92330251011, 92330251012, 92330251013, 92330251014, 92330251015, 92330251016, 92330251017, 92330251018, 92330251019, 92330251020

METHOD BLANK: 1936089 Matrix: Water  
Associated Lab Samples: 92330251001, 92330251002, 92330251003, 92330251004, 92330251005, 92330251006, 92330251007, 92330251008, 92330251009, 92330251010, 92330251011, 92330251012, 92330251013, 92330251014, 92330251015, 92330251016, 92330251017, 92330251018, 92330251019, 92330251020

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	0.020	0.020	02/20/17 17:33	
1-Chloro-2-bromopropane (S)	%	97	60-140		02/20/17 17:33	

LABORATORY CONTROL SAMPLE & LCSD: 1936090 1936091

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	.25	0.27	0.27	107	112	60-140	1	20	
1-Chloro-2-bromopropane (S)	%				98	96	60-140			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1936092 1936093

Parameter	Units	92330251004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dibromoethane (EDB)	ug/L	ND	.24	.24	0.28	0.28	114	114	60-140	0	20	
1-Chloro-2-bromopropane (S)	%						100	97	60-140			

SAMPLE DUPLICATE: 1936094

Parameter	Units	92330251005 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	ND		20	
1-Chloro-2-bromopropane (S)	%	100	99	5		

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### QUALITY CONTROL DATA

Project: STEADY SIMMONS 18856/53647  
Pace Project No.: 92330251

QC Batch: 348958 Analysis Method: EPA 8011  
QC Batch Method: EPA 8011 Analysis Description: GCS 8011 EDB DBCP  
Associated Lab Samples: 92330251021, 92330251022, 92330251023, 92330251024, 92330251025, 92330251026, 92330251027,  
92330251028, 92330251029, 92330251030, 92330251031

METHOD BLANK: 1936099 Matrix: Water  
Associated Lab Samples: 92330251021, 92330251022, 92330251023, 92330251024, 92330251025, 92330251026, 92330251027,  
92330251028, 92330251029, 92330251030, 92330251031

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	0.019	0.019	02/21/17 02:43	
1-Chloro-2-bromopropane (S)	%	100	60-140		02/21/17 02:43	

LABORATORY CONTROL SAMPLE & LCSD: 1936100 1936101

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	.25	0.29	0.30	119	119	60-140	3	20	
1-Chloro-2-bromopropane (S)	%				100	100	60-140			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1936102 1936103

Parameter	Units	92330251021 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dibromoethane (EDB)	ug/L	ND	.25	.25	0.29	0.29	117	117	60-140	0	20	
1-Chloro-2-bromopropane (S)	%						101	100	60-140			

SAMPLE DUPLICATE: 1936104

Parameter	Units	92330251022 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	ND		20	
1-Chloro-2-bromopropane (S)	%	97	95	0		

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## QUALIFIERS

Project: STEADY SIMMONS 18856/53647  
Pace Project No.: 92330251

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### DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

### LABORATORIES

PASI-C Pace Analytical Services - Charlotte

### ANALYTE QUALIFIERS

D3 Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

P5 The EPA or method required sample preservation degrades this compound, therefore acceptable recoveries may not be achieved in sample matrix spikes.

## REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: STEADY SIMMONS 18856/53647  
Pace Project No.: 92330251

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92330251001	MW-1R	EPA 8011	348956	EPA 8011	349044
92330251002	MW-2	EPA 8011	348956	EPA 8011	349044
92330251003	MW-3	EPA 8011	348956	EPA 8011	349044
92330251004	MW-4	EPA 8011	348956	EPA 8011	349044
92330251005	MW-5	EPA 8011	348956	EPA 8011	349044
92330251006	MW-6	EPA 8011	348956	EPA 8011	349044
92330251007	MW-7	EPA 8011	348956	EPA 8011	349044
92330251008	MW-8	EPA 8011	348956	EPA 8011	349044
92330251009	MW-9	EPA 8011	348956	EPA 8011	349044
92330251010	MW-11	EPA 8011	348956	EPA 8011	349044
92330251011	MW-12	EPA 8011	348956	EPA 8011	349044
92330251012	MW-13	EPA 8011	348956	EPA 8011	349044
92330251013	MW-14	EPA 8011	348956	EPA 8011	349044
92330251014	MW-15	EPA 8011	348956	EPA 8011	349044
92330251015	MW-16	EPA 8011	348956	EPA 8011	349044
92330251016	MW-17	EPA 8011	348956	EPA 8011	349044
92330251017	DW-1	EPA 8011	348956	EPA 8011	349044
92330251018	DW-2	EPA 8011	348956	EPA 8011	349044
92330251019	DW-3	EPA 8011	348956	EPA 8011	349044
92330251020	DW-4	EPA 8011	348956	EPA 8011	349044
92330251021	DW-5	EPA 8011	348958	EPA 8011	349045
92330251022	DW-6	EPA 8011	348958	EPA 8011	349045
92330251023	DW-7	EPA 8011	348958	EPA 8011	349045
92330251024	DW-8	EPA 8011	348958	EPA 8011	349045
92330251025	DUPLICATE 1	EPA 8011	348958	EPA 8011	349045
92330251026	DUPLICATE 2	EPA 8011	348958	EPA 8011	349045
92330251027	FIELD BLANK	EPA 8011	348958	EPA 8011	349045
92330251028	SW-1	EPA 8011	348958	EPA 8011	349045
92330251029	SW-2	EPA 8011	348958	EPA 8011	349045
92330251030	SW-3	EPA 8011	348958	EPA 8011	349045
92330251031	FIELD BLANK 2	EPA 8011	348958	EPA 8011	349045
92330251028	SW-1	EPA 8260	348819		
92330251029	SW-2	EPA 8260	348819		
92330251030	SW-3	EPA 8260	348819		
92330251001	MW-1R	EPA 8260	349058		
92330251002	MW-2	EPA 8260	349058		
92330251003	MW-3	EPA 8260	348873		
92330251004	MW-4	EPA 8260	348873		
92330251005	MW-5	EPA 8260	348873		
92330251006	MW-6	EPA 8260	348873		
92330251007	MW-7	EPA 8260	348873		
92330251008	MW-8	EPA 8260	348873		
92330251009	MW-9	EPA 8260	348873		
92330251010	MW-11	EPA 8260	348873		
92330251011	MW-12	EPA 8260	349325		
92330251012	MW-13	EPA 8260	348873		

REPORT OF LABORATORY ANALYSIS

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**QUALITY CONTROL DATA CROSS REFERENCE TABLE**

Project: STEADY SIMMONS 18856/53647  
Pace Project No.: 92330251

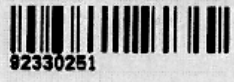
Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92330251013	MW-14	EPA 8260	348873		
92330251014	MW-15	EPA 8260	348873		
92330251015	MW-16	EPA 8260	348873		
92330251016	MW-17	EPA 8260	349058		
92330251017	DW-1	EPA 8260	348873		
92330251018	DW-2	EPA 8260	348873		
92330251019	DW-3	EPA 8260	348888		
92330251020	DW-4	EPA 8260	349058		
92330251021	DW-5	EPA 8260	348888		
92330251022	DW-6	EPA 8260	348888		
92330251023	DW-7	EPA 8260	348888		
92330251024	DW-8	EPA 8260	349058		
92330251025	DUPLICATE 1	EPA 8260	349058		
92330251026	DUPLICATE 2	EPA 8260	349058		
92330251027	FIELD BLANK	EPA 8260	348873		
92330251031	FIELD BLANK 2	EPA 8260	348873		
92330251032	TRIP BLANK	EPA 8260	348873		
92330251033	TRIP BLANK 2	EPA 8260	348873		

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Laboratory receiving samples:  
 Asheville  Eden  Greenwood  Huntersville  Raleigh  Mechanicsville

Sample Condition Upon Receipt **Client Name:** SCDHEC **Project #:** **WO# : 92330251**  
 Courier:  Commercial  Fed Ex  UPS  USPS  Client  Other: \_\_\_\_\_  
 Pace  Other: \_\_\_\_\_



Custody Seal Present?  Yes  No Seals Intact?  Yes  No  
 Packing Material:  Bubble Wrap  Bubble Bags  None  Other: \_\_\_\_\_  
 Thermometer:  IR Gun ID: T1103 Type of ice:  Wet  Blue  None  Samples on ice, cooling process has begun  
 Correction Factor: Cooler Temp Corrected (°C): 3.8 Biological Tissue Frozen?  Yes  No  N/A  
 Temp should be above freezing to 6°C  
 USDA Regulated Soil (  N/A, water sample)  
 Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)?  Yes  No  
 Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)?  Yes  No

		Comments/Discrepancy:
Chain of Custody Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Samples Arrived within Hold Time?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Short Hold Time Analysis (<72 hr.)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	3.
Rush Turn Around Time Requested?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	4.
Sufficient Volume?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Correct Containers Used?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	6.
-Pace Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Containers Intact?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	7.
Samples Field Filtered?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	8. Note if sediment is visible in the dissolved container
Sample Labels Match COC?	<input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	9. <u>no date time on labels</u>
-Includes Date/Time/ID/Analysis Matrix: <u>WT 2/15/17</u>		
Headspace in VOA Vials (>5-6mm)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	10.
Trip Blank Present?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	11.
Trip Blank Custody Seals Present?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	

CLIENT NOTIFICATION/RESOLUTION Field Data Required?  Yes  No

Person Contacted: \_\_\_\_\_ Date/Time: \_\_\_\_\_  
 Comments/Sample Discrepancy: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Project Manager SCURF Review: TC Date: 2/16/17  
 Project Manager SRF Review: TC Date: 2/16/17

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers)



Document Name:  
Sample Condition Upon Receipt(SCUR)

Document No.:  
F-CAR-CS-033-Rev.01

Document Revised: Sept. 21, 2016  
Page 2 of 2

Issuing Authority:  
Pace Quality Office

\*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.

\*\*Bottom half of box is to list number of bottles

Project #

W0#: 92330251

PM: RWC

Due Date: 02/23/17

CLIENT: 92-SCDHEC

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP3S-250 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP3Z-250 mL Plastic ZN Acetate & NaOH (>9)	BP2C-250 mL Plastic NaOH (pH > 12) (Cl-)	WGFLU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	AG3A(DG3A)-250 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unp (N/A)	DG9P-40 mL VOA H3PO4 (N/A)	VOAK (6 vials per kit)-5035 kit (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SPST-125 mL Sterile Plastic (N/A - lab)	SPZT-250 mL Sterile Plastic (N/A - lab)	BP3A-250 mL Plastic (NH2)2SO4 (9.3-9.7)	Cubitainer	VS6U-20 mL Scintillation vials (N/A)	GN		
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11																													
12																													

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #



\*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.

Project #

92330251

\*\*Bottom half of box is to list number of bottles

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (C-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP3S-250 mL Plastic H2SO4 (pH < 2) (C-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP3Z-250 mL Plastic ZN Acetate & NaOH (>9)	BP3C-250 mL Plastic NaOH (pH > 12) (C-)	WGFLU-Wide-mouthed Glass Jar Unpreserved	AG11U-1 liter Amber Unpreserved (N/A) (C-)	AG11F-1 liter Amber HCl (pH < 2)	AG31U-250 mL Amber Unpreserved (N/A) (C-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	AG3A(DG3A)-250 mL Amber NH4Cl (N/A)(C-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unp (N/A)	DG9F-40 mL VOA H3PO4 (N/A)	VOAK (6 vials per kit)-5035 kit (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A - lab)	SP2T-250 mL Sterile Plastic (N/A - lab)	BP3A-250 mL Plastic (NH2)2SO4 (9.3-9.7)	Cubitainer	V5GU-20 mL Scintillation vials (N/A)	GN		
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12																													

pH Adjustment Log for Preserved Samples						
Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

\*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.

Project #

92330251

\*\*Bottom half of box is to list number of bottles

Item#	Item Description	1	2	3	4	5	6	7	8	9	10	11	12
BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)		/	/	/	/	/	/	/	/	/	/	/	/
BP3U-250 mL Plastic Unpreserved (N/A)		/	/	/	/	/	/	/	/	/	/	/	/
BP2U-500 mL Plastic Unpreserved (N/A)		/	/	/	/	/	/	/	/	/	/	/	/
BP1U-1 liter Plastic Unpreserved (N/A)		/	/	/	/	/	/	/	/	/	/	/	/
BP3S-250 mL Plastic H2SO4 (pH < 2) (Cl-)		/	/	/	/	/	/	/	/	/	/	/	/
BP3N-250 mL plastic HNO3 (pH < 2)		/	/	/	/	/	/	/	/	/	/	/	/
BP3Z-250 mL Plastic ZN Acetate & NaOH (p9)		/	/	/	/	/	/	/	/	/	/	/	/
BP3C-250 mL Plastic NaOH (pH > 12) (Cl-)		/	/	/	/	/	/	/	/	/	/	/	/
WGRU-Wide-mouthed Glass jar Unpreserved		/	/	/	/	/	/	/	/	/	/	/	/
AG1U-1 liter Amber Unpreserved (N/A) (Cl-)		/	/	/	/	/	/	/	/	/	/	/	/
AG1H-1 liter Amber HCl (pH < 2)		/	/	/	/	/	/	/	/	/	/	/	/
AG3U-250 mL Amber Unpreserved (N/A) (Cl-)		/	/	/	/	/	/	/	/	/	/	/	/
AG1S-1 liter Amber H2SO4 (pH < 2)		/	/	/	/	/	/	/	/	/	/	/	/
AG3S-250 mL Amber H2SO4 (pH < 2)		/	/	/	/	/	/	/	/	/	/	/	/
AG3A(DG3A)-250 mL Amber NH4Cl (N/A)(Cl-)		/	/	/	/	/	/	/	/	/	/	/	/
DG9H-40 mL VOA HCl (N/A)													
VG9T-40 mL VOA Na2S2O3 (N/A)													
VG9U-40 mL VOA Unp (N/A)													
DG9P-40 mL VOA H3PO4 (N/A)													
VOAK (6 vials per kit)-5035 kit (N/A)													
V/GK (3 vials per kit)-VPH/Gas kit (N/A)													
SP5T-125 mL Sterile Plastic (N/A - lab)													
SP2T-250 mL Sterile Plastic (N/A - lab)													
BP3A-250 mL Plastic (NH2)2CO4 (9.3-9.7)													
Cubittainer													
VSGU-20 mL Scintillation vials (N/A)													
GN													

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #



CHAIN-OF-CUSTODY / Analytical Request Document
The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A Required Client Information: Company: SCHEL-WST, Report To: J. Bayant - WST, Invoice Information: 2149375, Regulatory Agency: USEPA, Site Location: SC, Jasper

Table with columns for Sample ID, Matrix Code, Date, Time, Collected, Preservatives, Analysis Test, and Results. Includes handwritten data for samples MW-1R through MW-12 and additional comments.

Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoice not paid within terms.



**CHAIN-OF-CUSTODY / Analytical Request Document**  
The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 2 of 3  
2149378

<b>Section A</b> Required Client Information:	<b>Section B</b> Required Project Information:	<b>Section C</b> Invoice Information:
Company: <u>SCDHEC - UST</u>	Report To: <u>J. Bryant - UST</u>	Attention:
Address: <u>2600 B-11 Street</u>	Copy To:	Company Name:
<u>Columbia SC 29202</u>	Purchase Order No.: <u>4600422513</u>	Address:
Email To: <u>ryan@scdhec.gov</u>	Project Name: <u>Steady Simmons</u>	Pace Order Reference: <u>J. Carter</u>
Phone: <u>803-795-0624</u> Fax: <u>803-848-0623</u>	Project Number: <u>US-15956 CA-53147</u>	Site Location: <u>SC Jasper</u>
Requested Date/DAT:		STATE: <u>SC</u>

ITEM #	SAMPLE ID (A-Z, 0-9 / -)	Matrix Codes MATRIX / CODE	COLLECTED				SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives							Analysis Test	Residual Chlorine (V/N)	Pace Project No / Lab I.D.			
			COMPOSITE START	COMPOSITE END	DATE	TIME			UNPRESERVED	H-SO <sub>4</sub>	HNO <sub>3</sub>	HCl	NaOH	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	Methanol				Other		
1	MW-13	DW			2/14/17	12:10	6								X	X	X	X		No odor	012
2	MW-14	WT			2/14/17	12:50	6								X	X	X	X		No odor	013
3	MW-15	WP			2/15/17	10:48														No odor	014
4	MW-16	P			2/14/17	14:20															015
5	MW-13	SL				10:45															016
6	DW-1	CL				11:19															017
7	DW-2	CS			2/14/17	11:46															018
8	DW-2	WP			2/15/17	10:22															019
9	DW-4	AR			2/14/17	13:17															020
10	DW-5	TS			2/15/17	11:13															021
11	DW-6	OT			2/14/17	14:45															022
12	DW-7				2/14/17	13:10	6								X	X	X	X		No odor	023

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	Peter J. Wylke / HECT	2/15/17	15:00	Pace	2-16-17	1140	
	JJ Pace	2-16-17	1349	Katherine Proctor	2/16/17	1349 32	V N 4

ORIGINAL

<b>SAMPLER NAME AND SIGNATURE</b>		Temp in °C	Received on (V/N)	Custody Seal Number (V/N)	Sample Intact (V/N)
PRINT Name of SAMPLER: <u>Peter J. Wylke</u>	DATE Signed (MM/DD/YY): <u>2/15/17</u>				
SIGNATURE of SAMPLER: <u>Peter J. Wylke</u>					

\*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.



### CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page 3 of 71

<b>Section A</b> Required Client Information: Company: SCDFE-UST Address: 2600 Guil Street Columbia SC 29202 Email To: Veyant56@hess.com Phone: 803-994-0624 Requested Due Date/TAT:		<b>Section B</b> Required Project Information: Report To: J. Bryant-UST Copy To: Purchase Order No.: 460042250 Project Name: Henry Simmons Project Number: UST-18856 CA-53446		<b>Section C</b> Invoice Information: Attention: Company Name: Address: Pace Quote Reference: Pace Project Manager: T. Carter Pace Profile:		Page: 3 of 3 2149379
				<b>REGULATORY AGENCY</b> <input type="checkbox"/> NPDES <input type="checkbox"/> GROUND WATER <input type="checkbox"/> DRINKING WATER <input checked="" type="checkbox"/> UST <input type="checkbox"/> RCRA <input type="checkbox"/> OTHER		
				Site Location: SC Jasper STATE:		

ITEM #	Section D Required Client Information	Matrix Codes MATEX I CODE	Matrix Codes to IRI DW WT WW P SL CL WP AP TS OT	COLLECTED				SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives							Analysis Test #	Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)	Pace Project No / Lab I.D.	
				COMPOSITE START		COMPOSITE END/GRAB				Unpreserved	H2SO4	HNO3	HCl	NIOH	Na2S2O8	Methanol					Other
				DATE	TIME	DATE	TIME														
1	DW-2	DW		2/14/17	11:12	2/14/17	11:12	6	6										No odor	024	
2	Duplicate 1	DW		2/14/17	11:12	2/14/17	11:12	1											No odor	025	
3	Duplicate 2	DW		2/15/17	10:48	2/15/17	10:48	1											No odor	026	
4	Field Blank	DW		2/14/17	14:40	2/14/17	14:40	1											Field blank	027	
5	S.W.1	DW		2/14/17	10:55	2/14/17	10:55	1											LDLs	028	
6	S.W.2	DW		2/14/17	11:00	2/14/17	11:00	1											LDLs	029	
7	S.W.3	DW		2/15/17	11:05	2/15/17	11:05	1											LDLs	030	
8	Trip Blank	WT		2/14/17	11:21	2/14/17	11:21	2											Trip blank	031	
9	Field blank 2	WT		2/15/17	11:20	2/15/17	11:20	1											Field blank 2	032	
10	Trip blank 2	WT		2/15/17	11:21	2/15/17	11:21	2											Trip blank 2	033	
11																					
12																					
ADDITIONAL COMMENTS		RELINQUISHED BY / AFFILIATION		DATE		TIME		ACCEPTED BY / AFFILIATION		DATE		TIME		SAMPLE CONDITIONS							
		Peter J. Walker / HESS		2/15/17		15:00		Tave		2/16/17		11:40									
		J.J. Tave		2-16-17		13:49		KORONAR		2/16/17		13:49		V N Y							

ORIGINAL

SAMPLER NAME AND SIGNATURE	
PRINT Name of SAMPLER: Peter J. Walker	DATE Signed (MM/DD/YYYY): 2/15/17
SIGNATURE of SAMPLER: <i>[Signature]</i>	

Temp in °C	Received on Ice (Y/N)	Cooling/Insulation (Y/N)	Sealed (Y/N)

\*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

March 02, 2017



Mr. John Bryant  
SCDHEC  
UST Program  
2600 Bull Street  
Columbia, SC 29201

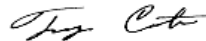
RE: Project: STEADY SIMMONS WSW 18856/53646  
Pace Project No.: 92330377

Dear Mr. Bryant:

Enclosed are the analytical results for sample(s) received by the laboratory on February 16, 2017. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Trey Carter  
treycarter@pacelabs.com  
(704)875-9092  
Project Manager

Enclosures

cc: Ashleigh Thrash, SCHDEC



**REPORT OF LABORATORY ANALYSIS**

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## CERTIFICATIONS

Project: STEADY SIMMONS WSW 18856/53646  
Pace Project No.: 92330377

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### Ormond Beach Certification IDs

8 East Tower Circle, Ormond Beach, FL 32174  
Alabama Certification #: 41320  
Connecticut Certification #: PH-0216  
Delaware Certification: FL NELAC Reciprocity  
Florida Certification #: E83079  
Georgia Certification #: 955  
Guam Certification: FL NELAC Reciprocity  
Hawaii Certification: FL NELAC Reciprocity  
Illinois Certification #: 200068  
Indiana Certification: FL NELAC Reciprocity  
Kansas Certification #: E-10383  
Louisiana Certification #: FL NELAC Reciprocity  
Louisiana Environmental Certificatc #: 05007  
Maryland Certification: #346  
Michigan Certification #: 9911  
Mississippi Certification: FL NELAC Reciprocity  
Missouri Certification #: 236  
Montana Certification #: Cert 0074

Nebraska Certification: NE-OS-28-14  
Nevada Certification: FL NELAC Reciprocity  
New York Certification #: 11608  
North Carolina Environmental Certificate #: 667  
North Carolina Certification #: 12710  
Oklahoma Certification #: D9947  
Pennsylvania Certification #: 68-00547  
Puerto Rico Certification #: FL01264  
South Carolina Certification: #96042001  
Tennessee Certification #: TN02974  
Texas Certification: FL NELAC Reciprocity  
US Virgin Islands Certification: FL NELAC Reciprocity  
Virginia Environmental Certification #: 460165  
Wyoming Certification: FL NELAC Reciprocity  
West Virginia Certification #: 9962C  
Wisconsin Certification #: 399079670  
Wyoming (EPA Region 8): FL NELAC Reciprocity

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### Charlotte Certification IDs

9800 Kincey Ave. Ste 100, Huntersville, NC 28078  
North Carolina Drinking Water Certification #: 37706  
North Carolina Field Services Certification #: 5342  
North Carolina Wastewater Certification #: 12

South Carolina Certification #: 99006001  
Florida/NELAP Certification #: E87627  
Kentucky UST Certification #: 84  
Virginia/VELAP Certification #: 460221

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## REPORT OF LABORATORY ANALYSIS

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### SAMPLE SUMMARY

Project: STEADY SIMMONS WSW 18856/53646  
Pace Project No.: 92330377

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92330377001	WSW-1	Water	02/15/17 09:50	02/16/17 11:40
92330377002	WSW-2	Water	02/15/17 10:40	02/16/17 11:40
92330377003	WSW-3	Water	02/15/17 10:15	02/16/17 11:40
92330377004	WSW-4	Water	02/15/17 10:00	02/16/17 11:40
92330377005	WSW-5	Water	02/15/17 11:30	02/16/17 11:40
92330377006	WSW-7	Water	02/15/17 10:25	02/16/17 11:40
92330377007	WSW-9	Water	02/15/17 11:00	02/16/17 11:40
92330377008	DUPLICATE	Water	02/15/17 09:50	02/16/17 11:40
92330377009	FIELD BLANK	Water	02/15/17 11:40	02/16/17 11:40
92330377010	TRIP BLANK	Water	02/16/17 11:41	02/16/17 11:40

### REPORT OF LABORATORY ANALYSIS

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**SAMPLE ANALYTE COUNT**

Project: STEADY SIMMONS WSW 18856/53646  
Pace Project No.: 92330377

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92330377001	WSW-1	EPA 504.1	HSK	2	PASI-C
		EPA 524.2	JLR	10	PASI-O
		EPA 8260	GAW	11	PASI-C
92330377002	WSW-2	EPA 504.1	HSK	2	PASI-C
		EPA 524.2	JLR	10	PASI-O
		EPA 8260	GAW	11	PASI-C
92330377003	WSW-3	EPA 504.1	HSK	2	PASI-C
		EPA 524.2	JLR	10	PASI-O
		EPA 8260	GAW	11	PASI-C
92330377004	WSW-4	EPA 504.1	HSK	2	PASI-C
		EPA 524.2	JLR	10	PASI-O
		EPA 8260	GAW	11	PASI-C
92330377005	WSW-5	EPA 504.1	HSK	2	PASI-C
		EPA 524.2	JLR	10	PASI-O
		EPA 8260	GAW	11	PASI-C
92330377006	WSW-7	EPA 504.1	HSK	2	PASI-C
		EPA 524.2	JLR	10	PASI-O
		EPA 8260	GAW	11	PASI-C
92330377007	WSW-9	EPA 504.1	HSK	2	PASI-C
		EPA 524.2	JLR	10	PASI-O
		EPA 8260	GAW	11	PASI-C
92330377008	DUPLICATE	EPA 504.1	HSK	2	PASI-C
		EPA 524.2	JLR	10	PASI-O
		EPA 8260	GAW	11	PASI-C
92330377009	FIELD BLANK	EPA 504.1	HSK	2	PASI-C
		EPA 524.2	JLR	10	PASI-O
		EPA 8260	GAW	11	PASI-C
92330377010	TRIP BLANK	EPA 524.2	JLR	10	PASI-O
		EPA 8260	GAW	11	PASI-C
		EPA 504.1	HSK	2	PASI-C

**REPORT OF LABORATORY ANALYSIS**

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### ANALYTICAL RESULTS

Project: STEADY SIMMONS WSW 18856/53646  
Pace Project No.: 92330377

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>Sample: WSW-1</b> <b>Lab ID: 92330377001</b> Collected: 02/15/17 09:50      Received: 02/16/17 11:40      Matrix: Water									
<b>504 GCS EDB and DBCP</b> Analytical Method: EPA 504.1      Preparation Method: EPA 504.1									
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	02/20/17 15:21	02/20/17 18:50	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	98	%	70-130		1	02/20/17 15:21	02/20/17 18:50	301-79-56	
<b>524.2 MSV</b> Analytical Method: EPA 524.2									
Benzene	ND	ug/L	0.50	0.25	1		03/01/17 12:19	71-43-2	
1,2-Dichloroethane	ND	ug/L	0.50	0.25	1		03/01/17 12:19	107-06-2	
Ethylbenzene	ND	ug/L	0.50	0.25	1		03/01/17 12:19	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	0.50	0.25	1		03/01/17 12:19	1634-04-4	L1
Naphthalene	ND	ug/L	0.50	0.25	1		03/01/17 12:19	91-20-3	
Toluene	ND	ug/L	0.50	0.25	1		03/01/17 12:19	108-88-3	
Xylene (Total)	ND	ug/L	0.50	0.25	1		03/01/17 12:19	1330-20-7	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	99	%	70-130		1		03/01/17 12:19	460-00-4	
Toluene-d8 (S)	105	%	70-130		1		03/01/17 12:19	2037-26-5	
1,2-Dichloroethane-d4 (S)	91	%	70-130		1		03/01/17 12:19	17060-07-0	
<b>8260 MSV Low Level SC</b> Analytical Method: EPA 8260									
tert-Amyl Alcohol	ND	ug/L	100	50.0	1		02/18/17 13:52	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	0.10	1		02/18/17 13:52	994-06-8	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	50.0	1		02/18/17 13:52	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	3.6	1		02/18/17 13:52	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	1.9	1		02/18/17 13:52	762-75-4	
Diisopropyl ether	ND	ug/L	1.0	0.12	1		02/18/17 13:52	108-20-3	
Ethanol	ND	ug/L	200	131	1		02/18/17 13:52	64-17-5	
Ethyl-tert-butyl ether	ND	ug/L	10.0	0.070	1		02/18/17 13:52	637-92-3	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	99	%	70-130		1		02/18/17 13:52	460-00-4	
1,2-Dichloroethane-d4 (S)	99	%	70-130		1		02/18/17 13:52	17060-07-0	
Toluene-d8 (S)	109	%	70-130		1		02/18/17 13:52	2037-26-5	

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### ANALYTICAL RESULTS

Project: STEADY SIMMONS WSW 18856/53646  
Pace Project No.: 92330377

Sample: WSW-2		Lab ID: 92330377002		Collected: 02/15/17 10:40		Received: 02/16/17 11:40		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>504 GCS EDB and DBCP</b>		Analytical Method: EPA 504.1 Preparation Method: EPA 504.1							
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	02/20/17 15:22	02/20/17 20:07	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	105	%	70-130		1	02/20/17 15:22	02/20/17 20:07	301-79-56	
<b>524.2 MSV</b>		Analytical Method: EPA 524.2							
Benzene	ND	ug/L	0.50	0.25	1		03/01/17 12:52	71-43-2	
1,2-Dichloroethane	ND	ug/L	0.50	0.25	1		03/01/17 12:52	107-06-2	
Ethylbenzene	ND	ug/L	0.50	0.25	1		03/01/17 12:52	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	0.50	0.25	1		03/01/17 12:52	1634-04-4	L1
Naphthalene	ND	ug/L	0.50	0.25	1		03/01/17 12:52	91-20-3	
Toluene	ND	ug/L	0.50	0.25	1		03/01/17 12:52	108-88-3	
Xylene (Total)	ND	ug/L	0.50	0.25	1		03/01/17 12:52	1330-20-7	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	98	%	70-130		1		03/01/17 12:52	460-00-4	
Toluene-d8 (S)	105	%	70-130		1		03/01/17 12:52	2037-26-5	
1,2-Dichloroethane-d4 (S)	96	%	70-130		1		03/01/17 12:52	17060-07-0	
<b>8260 MSV Low Level SC</b>		Analytical Method: EPA 8260							
tert-Amyl Alcohol	ND	ug/L	100	50.0	1		02/18/17 14:26	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	0.10	1		02/18/17 14:26	994-05-8	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	50.0	1		02/18/17 14:26	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	3.6	1		02/18/17 14:26	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	1.9	1		02/18/17 14:26	762-75-4	M1
Diisopropyl ether	ND	ug/L	1.0	0.12	1		02/18/17 14:26	108-20-3	
Ethanol	ND	ug/L	200	131	1		02/18/17 14:26	64-17-5	M1
Ethyl-tert-butyl ether	ND	ug/L	10.0	0.070	1		02/18/17 14:26	637-92-3	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	99	%	70-130		1		02/18/17 14:26	460-00-4	
1,2-Dichloroethane-d4 (S)	98	%	70-130		1		02/18/17 14:26	17060-07-0	
Toluene-d8 (S)	106	%	70-130		1		02/18/17 14:26	2037-26-5	

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### ANALYTICAL RESULTS

Project: STEADY SIMMONS WSW 18856/53646  
Pace Project No.: 92330377

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>Sample: WSW-3</b> <b>Lab ID: 92330377003</b> Collected: 02/15/17 10:15      Received: 02/16/17 11:40      Matrix: Water									
Analytical Method: EPA 504.1      Preparation Method: EPA 504.1									
504 GCS EDB and DBCP									
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	02/20/17 15:22	02/20/17 20:46	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	103	%	70-130		1	02/20/17 15:22	02/20/17 20:46	301-79-56	
Analytical Method: EPA 524.2									
524.2 MSV									
Benzene	ND	ug/L	0.50	0.25	1		03/01/17 13:21	71-43-2	
1,2-Dichloroethane	ND	ug/L	0.50	0.25	1		03/01/17 13:21	107-06-2	
Ethylbenzene	ND	ug/L	0.50	0.25	1		03/01/17 13:21	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	0.50	0.25	1		03/01/17 13:21	1634-04-4	L1
Naphthalene	ND	ug/L	0.50	0.25	1		03/01/17 13:21	91-20-3	
Toluene	ND	ug/L	0.50	0.25	1		03/01/17 13:21	108-88-3	
Xylene (Total)	ND	ug/L	0.50	0.25	1		03/01/17 13:21	1330-20-7	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	99	%	70-130		1		03/01/17 13:21	460-00-4	
Toluene-d8 (S)	107	%	70-130		1		03/01/17 13:21	2037-26-5	
1,2-Dichloroethane-d4 (S)	95	%	70-130		1		03/01/17 13:21	17060-07-0	
Analytical Method: EPA 8260									
8260 MSV Low Level SC									
tert-Amyl Alcohol	ND	ug/L	100	50.0	1		02/18/17 14:44	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	0.10	1		02/18/17 14:44	994-05-8	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	50.0	1		02/18/17 14:44	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	3.6	1		02/18/17 14:44	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	1.9	1		02/18/17 14:44	762-75-4	
Diisopropyl ether	ND	ug/L	1.0	0.12	1		02/18/17 14:44	108-20-3	
Ethanol	ND	ug/L	200	131	1		02/18/17 14:44	64-17-5	
Ethyl-tert-butyl ether	ND	ug/L	10.0	0.070	1		02/18/17 14:44	637-92-3	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	98	%	70-130		1		02/18/17 14:44	460-00-4	
1,2-Dichloroethane-d4 (S)	96	%	70-130		1		02/18/17 14:44	17060-07-0	
Toluene-d8 (S)	106	%	70-130		1		02/18/17 14:44	2037-26-5	

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### ANALYTICAL RESULTS

Project: STEADY SIMMONS WSW 18856/53646  
Pace Project No.: 92330377

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>Sample: WSW-4      Lab ID: 92330377004      Collected: 02/15/17 10:00      Received: 02/16/17 11:40      Matrix: Water</b>									
<b>504 GCS EDB and DBCP      Analytical Method: EPA 504.1      Preparation Method: EPA 504.1</b>									
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	02/20/17 15:22	02/20/17 21:05	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	100	%	70-130		1	02/20/17 15:22	02/20/17 21:05	301-79-56	
<b>524.2 MSV      Analytical Method: EPA 524.2</b>									
Benzene	ND	ug/L	0.50	0.25	1		03/01/17 13:50	71-43-2	
1,2-Dichloroethane	ND	ug/L	0.50	0.25	1		03/01/17 13:50	107-06-2	
Ethylbenzene	ND	ug/L	0.50	0.25	1		03/01/17 13:50	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	0.50	0.25	1		03/01/17 13:50	1634-04-4	L1
Naphthalene	ND	ug/L	0.50	0.25	1		03/01/17 13:50	91-20-3	
Toluene	ND	ug/L	0.50	0.25	1		03/01/17 13:50	108-88-3	
Xylene (Total)	ND	ug/L	0.50	0.25	1		03/01/17 13:50	1330-20-7	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	101	%	70-130		1		03/01/17 13:50	460-00-4	
Toluene-d8 (S)	106	%	70-130		1		03/01/17 13:50	2037-26-5	
1,2-Dichloroethane-d4 (S)	94	%	70-130		1		03/01/17 13:50	17060-07-0	
<b>8260 MSV Low Level SC      Analytical Method: EPA 8260</b>									
tert-Amyl Alcohol	ND	ug/L	100	50.0	1		02/18/17 15:01	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	0.10	1		02/18/17 15:01	994-05-8	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	50.0	1		02/18/17 15:01	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	3.6	1		02/18/17 15:01	75-85-0	
tert-Butyl Formate	ND	ug/L	50.0	1.9	1		02/18/17 15:01	762-75-4	
Diisopropyl ether	ND	ug/L	1.0	0.12	1		02/18/17 15:01	108-20-3	
Ethanol	ND	ug/L	200	131	1		02/18/17 15:01	64-17-5	
Ethyl-tert-butyl ether	ND	ug/L	10.0	0.070	1		02/18/17 15:01	637-92-3	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	99	%	70-130		1		02/18/17 15:01	460-00-4	
1,2-Dichloroethane-d4 (S)	98	%	70-130		1		02/18/17 15:01	17060-07-0	
Toluene-d8 (S)	105	%	70-130		1		02/18/17 15:01	2037-26-5	

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### ANALYTICAL RESULTS

Project: STEADY SIMMONS WSW 18856/53646  
Pace Project No.: 92330377

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>Sample: WSW-5</b> <b>Lab ID: 92330377005</b> Collected: 02/15/17 11:30      Received: 02/16/17 11:40      Matrix: Water									
Analytical Method: EPA 504.1      Preparation Method: EPA 504.1									
<b>504 GCS EDB and DBCP</b>									
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	02/20/17 15:22	02/20/17 21:23	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	101	%	70-130		1	02/20/17 15:22	02/20/17 21:23	301-79-56	
Analytical Method: EPA 524.2									
<b>524.2 MSV</b>									
Benzene	ND	ug/L	0.50	0.25	1		03/01/17 14:20	71-43-2	
1,2-Dichloroethane	ND	ug/L	0.50	0.25	1		03/01/17 14:20	107-06-2	
Ethylbenzene	ND	ug/L	0.50	0.25	1		03/01/17 14:20	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	0.50	0.25	1		03/01/17 14:20	1634-04-4	L1
Naphthalene	ND	ug/L	0.50	0.25	1		03/01/17 14:20	91-20-3	
Toluene	ND	ug/L	0.50	0.25	1		03/01/17 14:20	108-88-3	
Xylene (Total)	ND	ug/L	0.50	0.25	1		03/01/17 14:20	1330-20-7	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	99	%	70-130		1		03/01/17 14:20	460-00-4	
Toluene-d8 (S)	105	%	70-130		1		03/01/17 14:20	2037-26-5	
1,2-Dichloroethane-d4 (S)	95	%	70-130		1		03/01/17 14:20	17060-07-0	
Analytical Method: EPA 8260									
<b>8260 MSV Low Level SC</b>									
tert-Amyl Alcohol	ND	ug/L	100	50.0	1		02/18/17 15:19	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	0.10	1		02/18/17 15:19	994-05-8	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	50.0	1		02/18/17 15:19	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	3.6	1		02/18/17 15:19	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	1.9	1		02/18/17 15:19	762-75-4	
Diisopropyl ether	ND	ug/L	1.0	0.12	1		02/18/17 15:19	108-20-3	
Ethanol	ND	ug/L	200	131	1		02/18/17 15:19	64-17-5	
Ethyl-tert-butyl ether	ND	ug/L	10.0	0.070	1		02/18/17 15:19	637-92-3	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	98	%	70-130		1		02/18/17 15:19	460-00-4	
1,2-Dichloroethane-d4 (S)	98	%	70-130		1		02/18/17 15:19	17060-07-0	
Toluene-d8 (S)	105	%	70-130		1		02/18/17 15:19	2037-26-5	

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### ANALYTICAL RESULTS

Project: STEADY SIMMONS WSW 18856/53646  
Pace Project No.: 92330377

Sample: WSW-7 Lab ID: 92330377006 Collected: 02/15/17 10:25 Received: 02/16/17 11:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>504 GCS EDB and DBCP</b>									
Analytical Method: EPA 504.1 Preparation Method: EPA 504.1									
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	0.019	1	02/20/17 15:23	02/20/17 21:43	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	105	%	70-130		1	02/20/17 15:23	02/20/17 21:43	301-79-56	
<b>524.2 MSV</b>									
Analytical Method: EPA 524.2									
Benzene	ND	ug/L	0.50	0.25	1		03/01/17 14:50	71-43-2	
1,2-Dichloroethane	ND	ug/L	0.50	0.25	1		03/01/17 14:50	107-06-2	
Ethylbenzene	ND	ug/L	0.50	0.25	1		03/01/17 14:50	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	0.50	0.25	1		03/01/17 14:50	1634-04-4	L1
Naphthalene	ND	ug/L	0.50	0.25	1		03/01/17 14:50	91-20-3	
Toluene	ND	ug/L	0.50	0.25	1		03/01/17 14:50	108-88-3	
Xylene (Total)	ND	ug/L	0.50	0.25	1		03/01/17 14:50	1330-20-7	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	99	%	70-130		1		03/01/17 14:50	460-00-4	
Toluene-d8 (S)	94	%	70-130		1		03/01/17 14:50	2037-26-5	
1,2-Dichloroethane-d4 (S)	94	%	70-130		1		03/01/17 14:50	17060-07-0	
<b>8260 MSV Low Level SC</b>									
Analytical Method: EPA 8260									
tert-Amyl Alcohol	ND	ug/L	100	50.0	1		02/18/17 15:36	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	0.10	1		02/18/17 15:36	994-05-8	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	50.0	1		02/18/17 15:36	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	3.6	1		02/18/17 15:36	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	1.9	1		02/18/17 15:36	762-75-4	
Diisopropyl ether	ND	ug/L	1.0	0.12	1		02/18/17 15:36	108-20-3	
Ethanol	ND	ug/L	200	131	1		02/18/17 15:36	64-17-5	
Ethyl-tert-butyl ether	ND	ug/L	10.0	0.070	1		02/18/17 15:36	637-92-3	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	98	%	70-130		1		02/18/17 15:36	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%	70-130		1		02/18/17 15:36	17060-07-0	
Toluene-d8 (S)	107	%	70-130		1		02/18/17 15:36	2037-26-5	

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### ANALYTICAL RESULTS

Project: STEADY SIMMONS WSW 18856/53646  
Pace Project No.: 92330377

Sample: WSW-9 Lab ID: 92330377007 Collected: 02/15/17 11:00 Received: 02/16/17 11:40 Matrix: Water									
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>504 GCS EDB and DBCP</b> Analytical Method: EPA 504.1 Preparation Method: EPA 504.1									
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	02/20/17 15:23	02/20/17 22:02	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	105	%	70-130		1	02/20/17 15:23	02/20/17 22:02	301-79-56	
<b>524.2 MSV</b> Analytical Method: EPA 524.2									
Benzene	ND	ug/L	0.50	0.25	1		03/01/17 15:18	71-43-2	
1,2-Dichloroethane	ND	ug/L	0.50	0.25	1		03/01/17 15:18	107-06-2	
Ethylbenzene	ND	ug/L	0.50	0.25	1		03/01/17 15:18	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	0.50	0.25	1		03/01/17 15:18	1634-04-4	L1
Naphthalene	ND	ug/L	0.50	0.25	1		03/01/17 15:18	91-20-3	
Toluene	ND	ug/L	0.50	0.25	1		03/01/17 15:18	108-88-3	
Xylene (Total)	ND	ug/L	0.50	0.25	1		03/01/17 15:18	1330-20-7	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	99	%	70-130		1		03/01/17 15:18	460-00-4	
Toluene-d8 (S)	106	%	70-130		1		03/01/17 15:18	2037-26-5	
1,2-Dichloroethane-d4 (S)	93	%	70-130		1		03/01/17 15:18	17060-07-0	
<b>8260 MSV Low Level SC</b> Analytical Method: EPA 8260									
tert-Amyl Alcohol	ND	ug/L	100	50.0	1		02/18/17 15:54	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	0.10	1		02/18/17 15:54	994-05-8	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	50.0	1		02/18/17 15:54	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	3.6	1		02/18/17 15:54	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	1.9	1		02/18/17 15:54	762-75-4	
Diisopropyl ether	ND	ug/L	1.0	0.12	1		02/18/17 15:54	108-20-3	
Ethanol	ND	ug/L	200	131	1		02/18/17 15:54	64-17-5	
Ethyl-tert-butyl ether	ND	ug/L	10.0	0.070	1		02/18/17 15:54	637-92-3	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	100	%	70-130		1		02/18/17 15:54	460-00-4	
1,2-Dichloroethane-d4 (S)	96	%	70-130		1		02/18/17 15:54	17060-07-0	
Toluene-d8 (S)	106	%	70-130		1		02/18/17 15:54	2037-26-5	

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### ANALYTICAL RESULTS

Project: STEADY SIMMONS WSW 18856/53646  
Pace Project No.: 92330377

Sample: DUPLICATE		Lab ID: 92330377008	Collected: 02/15/17 09:50	Received: 02/16/17 11:40	Matrix: Water				
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>504 GCS EDB and DBCP</b>		Analytical Method: EPA 504.1 Preparation Method: EPA 504.1							
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	02/20/17 15:23	02/20/17 22:21	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	101	%	70-130		1	02/20/17 15:23	02/20/17 22:21	301-79-56	
<b>524.2 MSV</b>		Analytical Method: EPA 524.2							
Benzene	ND	ug/L	0.50	0.25	1		03/01/17 15:47	71-43-2	
1,2-Dichloroethane	ND	ug/L	0.50	0.25	1		03/01/17 15:47	107-06-2	
Ethylbenzene	ND	ug/L	0.50	0.25	1		03/01/17 15:47	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	0.50	0.25	1		03/01/17 15:47	1634-04-4	L1
Naphthalene	ND	ug/L	0.50	0.25	1		03/01/17 15:47	91-20-3	
Toluene	ND	ug/L	0.50	0.25	1		03/01/17 15:47	108-88-3	
Xylene (Total)	ND	ug/L	0.50	0.25	1		03/01/17 15:47	1330-20-7	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	101	%	70-130		1		03/01/17 15:47	460-00-4	
Toluene-d8 (S)	106	%	70-130		1		03/01/17 15:47	2037-26-5	
1,2-Dichloroethane-d4 (S)	96	%	70-130		1		03/01/17 15:47	17060-07-0	
<b>8260 MSV Low Level SC</b>		Analytical Method: EPA 8260							
tert-Amyl Alcohol	ND	ug/L	100	50.0	1		02/18/17 16:11	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	0.10	1		02/18/17 16:11	994-05-8	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	50.0	1		02/18/17 16:11	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	3.6	1		02/18/17 16:11	75-85-0	
tert-Butyl Formate	ND	ug/L	50.0	1.9	1		02/18/17 16:11	762-75-4	
Diisopropyl ether	ND	ug/L	1.0	0.12	1		02/18/17 16:11	108-20-3	
Ethanol	ND	ug/L	200	131	1		02/18/17 16:11	64-17-5	
Ethyl-tert-butyl ether	ND	ug/L	10.0	0.070	1		02/18/17 16:11	637-92-3	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	98	%	70-130		1		02/18/17 16:11	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%	70-130		1		02/18/17 16:11	17060-07-0	
Toluene-d8 (S)	106	%	70-130		1		02/18/17 16:11	2037-26-5	

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### ANALYTICAL RESULTS

Project: STEADY SIMMONS WSW 18856/53646  
Pace Project No.: 92330377

Sample: FIELD BLANK      Lab ID: 92330377009      Collected: 02/15/17 11:40      Received: 02/16/17 11:40      Matrix: Water									
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>504 GCS EDB and DBCP</b> Analytical Method: EPA 504.1      Preparation Method: EPA 504.1									
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	02/20/17 15:23	02/20/17 22:41	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	104	%	70-130		1	02/20/17 15:23	02/20/17 22:41	301-79-56	
<b>524.2 MSV</b> Analytical Method: EPA 524.2									
Benzene	ND	ug/L	0.50	0.25	1		03/01/17 16:16	71-43-2	
1,2-Dichloroethane	ND	ug/L	0.50	0.25	1		03/01/17 16:16	107-06-2	
Ethylbenzene	ND	ug/L	0.50	0.25	1		03/01/17 16:16	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	0.50	0.25	1		03/01/17 16:16	1634-04-4	L1
Naphthalene	ND	ug/L	0.50	0.25	1		03/01/17 16:16	91-20-3	
Toluene	ND	ug/L	0.50	0.25	1		03/01/17 16:16	108-88-3	
Xylene (Total)	ND	ug/L	0.50	0.25	1		03/01/17 16:16	1330-20-7	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	101	%	70-130		1		03/01/17 16:16	460-00-4	
Toluene-d8 (S)	103	%	70-130		1		03/01/17 16:16	2037-26-5	
1,2-Dichloroethane-d4 (S)	95	%	70-130		1		03/01/17 16:16	17060-07-0	
<b>8260 MSV Low Level SC</b> Analytical Method: EPA 8260									
tert-Amyl Alcohol	ND	ug/L	100	50.0	1		02/18/17 19:54	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	0.10	1		02/18/17 19:54	994-05-8	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	50.0	1		02/18/17 19:54	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	3.6	1		02/18/17 19:54	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	1.9	1		02/18/17 19:54	762-75-4	
Diisopropyl ether	ND	ug/L	1.0	0.12	1		02/18/17 19:54	108-20-3	
Ethanol	ND	ug/L	200	131	1		02/18/17 19:54	64-17-5	
Ethyl-tert-butyl ether	ND	ug/L	10.0	0.070	1		02/18/17 19:54	637-92-3	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	93	%	70-130		1		02/18/17 19:54	460-00-4	
1,2-Dichloroethane-d4 (S)	108	%	70-130		1		02/18/17 19:54	17060-07-0	
Toluene-d8 (S)	104	%	70-130		1		02/18/17 19:54	2037-26-5	

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### ANALYTICAL RESULTS

Project: STEADY SIMMONS WSW 18856/53646  
Pace Project No.: 92330377

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>Sample:</b> TRIP BLANK <b>Lab ID:</b> 92330377010 <b>Collected:</b> 02/15/17 11:41 <b>Received:</b> 02/16/17 11:40 <b>Matrix:</b> Water									
<b>524.2 MSV</b>									
Analytical Method: EPA 524.2									
Benzene	ND	ug/L	0.50	0.25	1		02/28/17 19:52	71-43-2	
1,2-Dichloroethane	ND	ug/L	0.50	0.25	1		02/28/17 19:52	107-06-2	
Ethylbenzene	ND	ug/L	0.50	0.25	1		02/28/17 19:52	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	0.50	0.25	1		02/28/17 19:52	1634-04-4	L1
Naphthalene	ND	ug/L	0.50	0.25	1		02/28/17 19:52	91-20-3	
Toluene	ND	ug/L	0.50	0.25	1		02/28/17 19:52	108-88-3	
Xylene (Total)	ND	ug/L	0.50	0.25	1		02/28/17 19:52	1330-20-7	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	102	%	70-130		1		02/28/17 19:52	460-00-4	
Toluene-d8 (S)	96	%	70-130		1		02/28/17 19:52	2037-26-5	
1,2-Dichloroethane-d4 (S)	94	%	70-130		1		02/28/17 19:52	17060-07-0	
<b>8260 MSV Low Level SC</b>									
Analytical Method: EPA 8260									
tert-Amyl Alcohol	ND	ug/L	100	50.0	1		02/18/17 20:11	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	0.10	1		02/18/17 20:11	994-05-8	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	50.0	1		02/18/17 20:11	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	3.6	1		02/18/17 20:11	75-85-0	
tert-Butyl Formate	ND	ug/L	50.0	1.9	1		02/18/17 20:11	762-75-4	
Diisopropyl ether	ND	ug/L	1.0	0.12	1		02/18/17 20:11	108-20-3	
Ethanol	ND	ug/L	200	131	1		02/18/17 20:11	64-17-5	
Ethyl-tert-butyl ether	ND	ug/L	10.0	0.070	1		02/18/17 20:11	637-92-3	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	94	%	70-130		1		02/18/17 20:11	460-00-4	
1,2-Dichloroethane-d4 (S)	109	%	70-130		1		02/18/17 20:11	17060-07-0	
Toluene-d8 (S)	103	%	70-130		1		02/18/17 20:11	2037-26-5	

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### QUALITY CONTROL DATA

Project: STEADY SIMMONS WSW 18856/53646  
Pace Project No.: 92330377

QC Batch: 353519 Analysis Method: EPA 524.2  
QC Batch Method: EPA 524.2 Analysis Description: 524.2 MSV  
Associated Lab Samples: 92330377010

METHOD BLANK: 1900664 Matrix: Water  
Associated Lab Samples: 92330377010

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	0.50	0.25	02/28/17 17:17	
Benzene	ug/L	ND	0.50	0.25	02/28/17 17:17	
Ethylbenzene	ug/L	ND	0.50	0.25	02/28/17 17:17	
Methyl-tert-butyl ether	ug/L	ND	0.50	0.25	02/28/17 17:17	
Naphthalene	ug/L	ND	0.50	0.25	02/28/17 17:17	
Toluene	ug/L	ND	0.50	0.25	02/28/17 17:17	
Xylene (Total)	ug/L	ND	0.50	0.25	02/28/17 17:17	
1,2-Dichloroethane-d4 (S)	%	95	70-130		02/28/17 17:17	
4-Bromofluorobenzene (S)	%	97	70-130		02/28/17 17:17	
Toluene-d8 (S)	%	108	70-130		02/28/17 17:17	

Parameter	Units	1900665								1900666		
		Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers		
1,2-Dichloroethane	ug/L	5	5.5	4.9	109	98	70-130	11	40			
Benzene	ug/L	5	5.4	4.7	108	94	70-130	14	40			
Ethylbenzene	ug/L	5	4.2	4.7	83	93	70-130	11	40			
Methyl-tert-butyl ether	ug/L	5	6.5	6.6	130	133	70-130	2	40	L1		
Naphthalene	ug/L	5	5.0	5.3	100	106	70-130	6	40			
Toluene	ug/L	5	5.1	5.1	102	102	70-130	0	40			
Xylene (Total)	ug/L	15	10.7	11.5	71	77	70-130	7	40	LS		
1,2-Dichloroethane-d4 (S)	%				107	91	70-130					
4-Bromofluorobenzene (S)	%				107	116	70-130					
Toluene-d8 (S)	%				98	96	70-130					

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### QUALITY CONTROL DATA

Project: STEADY SIMMONS WSW 18856/53646  
Pace Project No.: 92330377

QC Batch: 353671 Analysis Method: EPA 524.2  
QC Batch Method: EPA 524.2 Analysis Description: 524.2 MSV  
Associated Lab Samples: 92330377001, 92330377002, 92330377003, 92330377004, 92330377005, 92330377006, 92330377007,  
92330377008, 92330377009

METHOD BLANK: 1901596 Matrix: Water  
Associated Lab Samples: 92330377001, 92330377002, 92330377003, 92330377004, 92330377005, 92330377006, 92330377007,  
92330377008, 92330377009

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	0.50	0.25	03/01/17 11:50	
Benzene	ug/L	ND	0.50	0.25	03/01/17 11:50	
Ethylbenzene	ug/L	ND	0.50	0.25	03/01/17 11:50	
Methyl-tert-butyl ether	ug/L	ND	0.50	0.25	03/01/17 11:50	
Naphthalene	ug/L	ND	0.50	0.25	03/01/17 11:50	
Toluene	ug/L	ND	0.60	0.26	03/01/17 11:50	
Xylene (Total)	ug/L	ND	0.50	0.25	03/01/17 11:50	
1,2-Dichloroethane-d4 (S)	%	96	70-130		03/01/17 11:50	
4-Bromofluorobenzene (S)	%	100	70-130		03/01/17 11:50	
Toluene-d8 (S)	%	106	70-130		03/01/17 11:50	

Parameter	Units	1901597		1901598			% Rec Limits	RPD	Max RPD	Qualifiers
		Spike Conc.	LCS Result	LCS Result	% Rec	% Rec				
1,2-Dichloroethane	ug/L	5	4.7	4.9	93	97	70-130	4	40	
Benzene	ug/L	5	4.6	4.6	92	91	70-130	1	40	
Ethylbenzene	ug/L	5	4.2	4.3	84	86	70-130	2	40	
Methyl-tert-butyl ether	ug/L	5	7.4	7.6	149	153	70-130	3	40 L1	
Naphthalene	ug/L	5	4.9	5.0	97	100	70-130	3	40	
Toluene	ug/L	5	4.0	5.1	81	102	70-130	23	40	
Xylene (Total)	ug/L	15	10.6	10.7	71	71	70-130	0	40 LS	
1,2-Dichloroethane-d4 (S)	%				95	94	70-130			
4-Bromofluorobenzene (S)	%				109	117	70-130			
Toluene-d8 (S)	%				100	103	70-130			

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### QUALITY CONTROL DATA

Project: STEADY SIMMONS WSW 18856/53646  
Pace Project No.: 92330377

QC Batch: 348875 Analysis Method: EPA 8260  
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV Low Level SC  
Associated Lab Samples: 92330377001, 92330377002, 92330377003, 92330377004, 92330377005, 92330377006, 92330377007, 92330377008

METHOD BLANK: 1935757 Matrix: Water  
Associated Lab Samples: 92330377001, 92330377002, 92330377003, 92330377004, 92330377005, 92330377006, 92330377007, 92330377008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
3,3-Dimethyl-1-Butanol	ug/L	ND	100	50.0	02/18/17 10:22	
Diisopropyl ether	ug/L	ND	1.0	0.12	02/18/17 10:22	
Ethanol	ug/L	ND	200	131	02/18/17 10:22	
Ethyl-tert-butyl ether	ug/L	ND	10.0	0.070	02/18/17 10:22	
tert-Amyl Alcohol	ug/L	ND	100	50.0	02/18/17 10:22	
tert-Amylmethyl ether	ug/L	ND	10.0	0.10	02/18/17 10:22	
tert-Butyl Alcohol	ug/L	ND	100	3.6	02/18/17 10:22	
tert-Butyl Formate	ug/L	ND	50.0	1.9	02/18/17 10:22	
1,2-Dichloroethane-d4 (S)	%	97	70-130		02/18/17 10:22	
4-Bromofluorobenzene (S)	%	96	70-130		02/18/17 10:22	
Toluene-d8 (S)	%	108	70-130		02/18/17 10:22	

LABORATORY CONTROL SAMPLE: 1935758

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
3,3-Dimethyl-1-Butanol	ug/L	1000	1000	100	70-130	
Diisopropyl ether	ug/L	50	54.4	109	70-130	
Ethanol	ug/L	2000	1830	92	70-130	
Ethyl-tert-butyl ether	ug/L	100	108	108	70-130	
tert-Amyl Alcohol	ug/L	1000	968	97	70-130	
tert-Amylmethyl ether	ug/L	100	105	105	70-130	
tert-Butyl Alcohol	ug/L	500	469	94	70-130	
tert-Butyl Formate	ug/L	400	471	118	70-130	
1,2-Dichloroethane-d4 (S)	%			102	70-130	
4-Bromofluorobenzene (S)	%			101	70-130	
Toluene-d8 (S)	%			97	70-130	

MATRIX SPIKE SAMPLE: 1935760

Parameter	Units	92330377002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
3,3-Dimethyl-1-Butanol	ug/L	ND	400	310	78	70-130	
Diisopropyl ether	ug/L	ND	20	22.6	113	70-130	
Ethanol	ug/L	ND	800	1190	148	70-130 M1	
Ethyl-tert-butyl ether	ug/L	ND	40	44.8	112	70-130	
tert-Amyl Alcohol	ug/L	ND	400	363	91	70-130	
tert-Amylmethyl ether	ug/L	ND	40	43.5	109	70-130	
tert-Butyl Alcohol	ug/L	ND	200	190	95	70-130	

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### QUALITY CONTROL DATA

Project: STEADY SIMMONS WSW 18856/53646  
Pace Project No.: 92330377

MATRIX SPIKE SAMPLE: 1935760		92330377002	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
tert-Butyl Formate	ug/L	ND	160	ND	0	70-130	M1,P5
1,2-Dichloroethane-d4 (S)	%				102	70-130	
4-Bromofluorobenzene (S)	%				103	70-130	
Toluene-d8 (S)	%				99	70-130	

SAMPLE DUPLICATE: 1935759		92330377001	Dup		Max	
Parameter	Units	Result	Result	RPD	RPD	Qualifiers
3,3-Dimethyl-1-Butanol	ug/L	ND	ND		30	
Dilsopropyl ether	ug/L	ND	ND		30	
Ethanol	ug/L	ND	ND		30	
Ethyl-tert-butyl ether	ug/L	ND	ND		30	
tert-Amyl Alcohol	ug/L	ND	ND		30	
tert-Amylmethyl ether	ug/L	ND	ND		30	
tert-Butyl Alcohol	ug/L	ND	ND		30	
tert-Butyl Formate	ug/L	ND	ND		30	
1,2-Dichloroethane-d4 (S)	%	99	99	0		
4-Bromofluorobenzene (S)	%	99	98	1		
Toluene-d8 (S)	%	109	108	1		

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### QUALITY CONTROL DATA

Project: STEADY SIMMONS WSW 18856/53646  
Pace Project No.: 92330377

QC Batch: 348891 Analysis Method: EPA 8260  
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV Low Level SC  
Associated Lab Samples: 92330377009, 92330377010

METHOD BLANK: 1935963 Matrix: Water  
Associated Lab Samples: 92330377009, 92330377010

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
3,3-Dimethyl-1-Butanol	ug/L	ND	100	50.0	02/18/17 14:30	
Diisopropyl ether	ug/L	ND	1.0	0.12	02/18/17 14:30	
Ethanol	ug/L	ND	200	131	02/18/17 14:30	
Ethyl-tert-butyl ether	ug/L	ND	10.0	0.070	02/18/17 14:30	
tert-Amyl Alcohol	ug/L	ND	100	50.0	02/18/17 14:30	
tert-Amylmethyl ether	ug/L	ND	10.0	0.10	02/18/17 14:30	
tert-Butyl Alcohol	ug/L	ND	100	3.6	02/18/17 14:30	
tert-Butyl Formate	ug/L	ND	50.0	1.9	02/18/17 14:30	
1,2-Dichloroethane-d4 (S)	%	101	70-130		02/18/17 14:30	
4-Bromofluorobenzene (S)	%	97	70-130		02/18/17 14:30	
Toluene-d8 (S)	%	102	70-130		02/18/17 14:30	

LABORATORY CONTROL SAMPLE: 1935964

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
3,3-Dimethyl-1-Butanol	ug/L	1000	919	92	70-130	
Diisopropyl ether	ug/L	50	52.6	105	70-130	
Ethanol	ug/L	2000	1620	81	70-130	
Ethyl-tert-butyl ether	ug/L	100	106	106	70-130	
tert-Amyl Alcohol	ug/L	1000	833	83	70-130	
tert-Amylmethyl ether	ug/L	100	103	103	70-130	
tert-Butyl Alcohol	ug/L	500	402	80	70-130	
tert-Butyl Formate	ug/L	400	487	122	70-130	
1,2-Dichloroethane-d4 (S)	%			96	70-130	
4-Bromofluorobenzene (S)	%			101	70-130	
Toluene-d8 (S)	%			102	70-130	

MATRIX SPIKE SAMPLE: 1935966

Parameter	Units	92330412011 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
3,3-Dimethyl-1-Butanol	ug/L	ND	400	460	115	70-130	
Diisopropyl ether	ug/L	ND	20	22.1	111	70-130	
Ethanol	ug/L	ND	800	1220	153	70-130 M1	
Ethyl-tert-butyl ether	ug/L	ND	40	44.5	111	70-130	
tert-Amyl Alcohol	ug/L	ND	400	469	117	70-130	
tert-Amylmethyl ether	ug/L	ND	40	43.2	108	70-130	
tert-Butyl Alcohol	ug/L	ND	200	306	153	70-130 M1	
tert-Butyl Formate	ug/L	ND	160	ND	0	70-130 M1,P5	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

### REPORT OF LABORATORY ANALYSIS

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**QUALITY CONTROL DATA**

Project: STEADY SIMMONS WSW 18856/53646  
Pace Project No.: 92330377

MATRIX SPIKE SAMPLE: 1935966

Parameter	Units	92330412011 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane-d4 (S)	%				95	70-130	
4-Bromofluorobenzene (S)	%				101	70-130	
Toluene-d8 (S)	%				101	70-130	

SAMPLE DUPLICATE: 1935965

Parameter	Units	92330412010 Result	Dup Result	RPD	Max RPD	Qualifiers
3,3-Dimethyl-1-Butanol	ug/L	ND	ND		30	
Diisopropyl ether	ug/L	ND	ND		30	
Ethanol	ug/L	ND	ND		30	
Ethyl-tert-butyl ether	ug/L	ND	ND		30	
tert-Amyl Alcohol	ug/L	ND	ND		30	
tert-Amylmethyl ether	ug/L	ND	ND		30	
tert-Butyl Alcohol	ug/L	ND	ND		30	
tert-Butyl Formate	ug/L	ND	ND		30	
1,2-Dichloroethane-d4 (S)	%	106	107		1	
4-Bromofluorobenzene (S)	%	94	93		1	
Toluene-d8 (S)	%	101	104		2	

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**REPORT OF LABORATORY ANALYSIS**

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### QUALITY CONTROL DATA

Project: STEADY SIMMONS WSW 18856/53646  
Pace Project No.: 92330377

QC Batch: 348961 Analysis Method: EPA 504.1  
QC Batch Method: EPA 504.1 Analysis Description: GCS 504 EDB DBCP  
Associated Lab Samples: 92330377001, 92330377002, 92330377003, 92330377004, 92330377005, 92330377006, 92330377007, 92330377008, 92330377009

METHOD BLANK: 1936113 Matrix: Water  
Associated Lab Samples: 92330377001, 92330377002, 92330377003, 92330377004, 92330377005, 92330377006, 92330377007, 92330377008, 92330377009

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	0.020	0.020	02/20/17 17:33	
1-Chloro-2-bromopropane (S)	%	100	70-130		02/20/17 17:33	

LABORATORY CONTROL SAMPLE & LCSD: 1936114 1936115

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	.25	0.31	0.30	123	121	70-130	3	20	
1-Chloro-2-bromopropane (S)	%				107	102	70-130			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1936116 1936117

Parameter	Units	92330377001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dibromoethane (EDB)	ug/L	ND	.25	.25	0.29	0.31	117	126	65-135	7	20	
1-Chloro-2-bromopropane (S)	%						98	105	70-130			

SAMPLE DUPLICATE: 1936118

Parameter	Units	92330377002 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	ND		20	
1-Chloro-2-bromopropane (S)	%	105	99	6		

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

### REPORT OF LABORATORY ANALYSIS

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## QUALIFIERS

Project: STEADY SIMMONS WSW 18856/53646  
Pace Project No.: 92330377

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### DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.  
ND - Not Detected at or above adjusted reporting limit.  
J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.  
MDL - Adjusted Method Detection Limit.  
PQL - Practical Quantitation Limit.  
RL - Reporting Limit.  
S - Surrogate  
1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.  
Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.  
LCS(D) - Laboratory Control Sample (Duplicate)  
MS(D) - Matrix Spike (Duplicate)  
DUP - Sample Duplicate  
RPD - Relative Percent Difference  
NC - Not Calculable.  
SG - Silica Gel - Clean-Up  
U - Indicates the compound was analyzed for, but not detected.  
Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.  
A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.  
N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.  
Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.  
TNI - The NELAC Institute.

### LABORATORIES

PASI-C Pace Analytical Services - Charlotte  
PASI-O Pace Analytical Services - Ormond Beach

### ANALYTE QUALIFIERS

L1 Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results for this analyte in associated samples may be biased high.  
LS Analyte recovery in the laboratory control sample (LCS) was outside QC limits for one or more of the constituent analytes used in the calculated result.  
M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.  
P5 The EPA or method required sample preservation degrades this compound, therefore acceptable recoveries may not be achieved in sample matrix spikes.

## REPORT OF LABORATORY ANALYSIS

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**QUALITY CONTROL DATA CROSS REFERENCE TABLE**

Project: STEADY SIMMONS WSW 18856/53646  
Pace Project No.: 92330377

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92330377001	WSW-1	EPA 504.1	348961	EPA 504.1	349046
92330377002	WSW-2	EPA 504.1	348961	EPA 504.1	349046
92330377003	WSW-3	EPA 504.1	348961	EPA 504.1	349046
92330377004	WSW-4	EPA 504.1	348961	EPA 504.1	349046
92330377005	WSW-5	EPA 504.1	348961	EPA 504.1	349046
92330377006	WSW-7	EPA 504.1	348961	EPA 504.1	349046
92330377007	WSW-9	EPA 504.1	348961	EPA 504.1	349046
92330377008	DUPLICATE	EPA 504.1	348961	EPA 504.1	349046
92330377009	FIELD BLANK	EPA 504.1	348961	EPA 504.1	349046
92330377001	WSW-1	EPA 524.2	353671		
92330377002	WSW-2	EPA 524.2	353671		
92330377003	WSW-3	EPA 524.2	353671		
92330377004	WSW-4	EPA 524.2	353671		
92330377005	WSW-5	EPA 524.2	353671		
92330377006	WSW-7	EPA 524.2	353671		
92330377007	WSW-9	EPA 524.2	353671		
92330377008	DUPLICATE	EPA 524.2	353671		
92330377009	FIELD BLANK	EPA 524.2	353671		
92330377010	TRIP BLANK	EPA 524.2	353519		
92330377001	WSW-1	EPA 8260	348875		
92330377002	WSW-2	EPA 8260	348875		
92330377003	WSW-3	EPA 8260	348875		
92330377004	WSW-4	EPA 8260	348875		
92330377005	WSW-5	EPA 8260	348875		
92330377006	WSW-7	EPA 8260	348875		
92330377007	WSW-9	EPA 8260	348875		
92330377008	DUPLICATE	EPA 8260	348875		
92330377009	FIELD BLANK	EPA 8260	348891		
92330377010	TRIP BLANK	EPA 8260	348891		

**REPORT OF LABORATORY ANALYSIS**

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**Laboratory receiving samples:**

Asheville  Eden  Greenwood  Huntersville  Raleigh  Mechanicsville

Sample Condition Upon Receipt

Client Name: SCDHEC-UST Project

WO#: **92330377**



92330377

Courier:  Commercial  Pace  Fed Ex  UPS  USPS  Other:  Client

Custody Seal Present?  Yes  No Seals Intact?  Yes  No

Packing Material:  Bubble Wrap  Bubble Bags  None  Other: \_\_\_\_\_

Thermometer:  IR Gun ID: T1103 Type of Ice:  Wet  Blue  None  Samples on Ice, cooling process has begun

Correction Factor: Cooler Temp Corrected (°C): 1.0 Biological Tissue Frozen?  Yes  No  N/A

Temp should be above freezing to 6°C  
 USDA Regulated Soil (  N/A, water sample)  
 Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)?  Yes  No  
 Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)?  Yes  No

	Comments/Discrepancy:
Chain of Custody Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Samples Arrived within Hold Time? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Short Hold Time Analysis (<72 hr.?) <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	3.
Rush Turn Around Time Requested? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	4.
Sufficient Volume? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Correct Containers Used? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	6.
-Pace Containers Used? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	7.
Containers Intact? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Samples Field Filtered? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	9. Note if sediment is visible in the dissolved container
Sample Labels Match COC? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	9. <u>NO TIME, NO DATE ON SAMPLE AS PER COC</u>
-Includes Date/Time/ID/Analysis Matrix: <u>Water</u>	
Headspace in VOA Vials (>5-6mm)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	10.
Trip Blank Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	11.
Trip Blank Custody Seals Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	

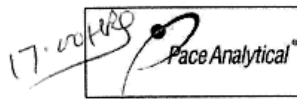
**CLIENT NOTIFICATION/RESOLUTION**

Field Data Required?  Yes  No

Person Contacted: \_\_\_\_\_ Date/Time: \_\_\_\_\_  
 Comments/Sample Discrepancy: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Project Manager SCURF Review: TC Date: 2/16/17  
 Project Manager SRF Review: TC Date: 2/16/17

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers)



\*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.  
 \*\*Bottom half of box is to list number of bottles

Project: **WO# : 92330377**  
 PM: RWC Due Date: 02/23/17  
 CLIENT: 92-SCDHEC

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (C-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP3S-250 mL Plastic H2SO4 (pH < 2) (C-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP3Z-250 mL Plastic ZN Acetate & NaOH (>9)	BP3C-250 mL Plastic NaOH (pH > 12) (C-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (C-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (C-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	AG3A(DG3A)-250 mL Amber NH4Cl (N/A)(C-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unp (N/A)	DG9P-40 mL VOA H3PO4 (N/A)	VOAK (6 vials per kit)-S035 kit (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A - lab)	SP2T-250 mL Sterile Plastic (N/A - lab)	BP3A-250 mL Plastic (NH2)2SO4 (9.3-9.7)	Cubitainer	VSGU-20 mL Scintillation vials (N/A)	GN	
1	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	6	3											
2	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	6	3											
3	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	6	3											
4	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	6	3											
5	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	6	3											
6	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	6	3											
7	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	6	3											
8	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/													
9	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	6	3											
10	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	6	3											
11	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	6	3											
12	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	6												

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #



### CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 1 of 1  
Page 26 of 26

2149153

**REGULATORY AGENCY**  
 NPDES  GROUND WATER  DRINKING WATER  
 UST  RCRA  OTHER \_\_\_\_\_  
 Site Location: SC Jasper  
 STATE: SC Jasper

<b>Section A</b> Required Client Information:	<b>Section B</b> Required Project Information:	<b>Section C</b> Invoice Information:
Company: SUDRIE CO UST	Report To: D. Bryant - UST	Attention:
Address: 2600 Ball Street Columbia SC 29202	Copy To:	Company Name:
Email To: bryant@sdriec.com	Purchase Order No.: 4600422613	Face Quote Reference:
Phone: 803-538-0424	Project Name: Sleazy Summary	Face Project Manager: T. Carter
Requested Due Date/TAT: 02-28-17	Project Number: UST-18930 CA-53646	Face Profile #:

ITEM #	SAMPLE ID (A-Z, 0-9, -) Sample IDs MUST BE UNIQUE	MATRIX CODE (SEE UST CODES TO LEFT)	COLLECTED				SAMPLE TEMP AT COLLECTION	PRESERVATIVES							ANALYSIS TEST 1	Y/N	Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.	
			DATE	TIME	DATE	TIME		UNPRESERVED	H <sub>2</sub> SO <sub>4</sub>	HNO <sub>3</sub>	HCl	NaOH	Na <sub>2</sub> SO <sub>4</sub>	Methanol						Other
1	US-1	DWG			2/15/17	9:50	9				6	3				XXX				
2	US-2	DWG				10:40										XXX				
3	US-3	DWG				10:15										XXX				
4	US-4	DWG				10:00										XXX				
5	US-5	DWG			2/15/17	11:30	9				6	3				XXX				
6	US-6	DWG														XXX				
7	US-7	DWG			2/15/17	10:25	9				6	3				XXX				
8	US-8	DWG														XXX				
9	US-9	DWG			2/15/17	11:00	9				6	3				XXX				
10	Blank	DWG				9:50	9									XXX				
11	Field Blank	DWG				11:40	9									XXX				
12	Trip Blank	DWG			2/15/17	11:41	6				6					XXX				

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	Peter J. Wile / MECE	2/15/17	15:00	[Signature]	2/16/17	14:00	
	[Signature]	2/16/17	13:49	[Signature]	2/16/17	13:49	1.0 Y M Y

ORIGINAL

<b>SAMPLER NAME AND SIGNATURE</b>		Temp in °C	Received on this date (Y/N)	Custody	Sampled Correctly (Y/N)	Sampled Intact (Y/N)
PRINT Name of SAMPLER: Peter J. Wile	SIGNATURE of SAMPLER: [Signature]					
	DATE Signed (MM/DD/YY): 2/15/17					

\*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

Domenico Model					
UST # 18856 Site Name: Steady Simmons Modeler: John Bryant Date: 4/25/2017		<b>Transport Parameters</b>		<b>Simulation Time</b>	
		$x_{max}$ <input type="text" value="235"/> ft $y_{max}$ <input type="text" value="0"/> ft $z$ <input type="text" value="0"/> ft Source Width <input type="text" value="30"/> ft Source Thickness <input type="text" value="15"/> ft	$t_{sim}$ <input type="text" value="30"/> yrs		
<b>Groundwater Flow Parameters</b>				<b>Aquifer Characteristics</b>	
$K$ <input type="text" value="70"/> ft/yr $dh/dx$ <input type="text" value="0.1"/> $\theta$ <input type="text" value="0.25"/> dec. % $v_x$ <input type="text" value="15"/> ft/yr		Plume Length <input type="text" value="235"/> ft $\alpha_x$ <input type="text" value="12.10163"/> ft $\alpha_y$ <input type="text" value="1.210163"/> ft $\alpha_z$ <input type="text" value="1.00E-99"/> ft		$\rho_d$ <input type="text" value="1.6"/> kg/L $f_{oc}$ <input type="text" value="0.0002"/>	
Retarded Velocity					
Source Area CoC Data			Simulation Points for Breakthrough Curves		
(ft/yr)					
CoC	$C_{source}$ (mg/L)	$K_{oc}$ (L/kg)	CoC	R	$v_R$
Benzene	0.243	81	Benzene	1.104	13.59
Toluene	1.77	133	Toluene	1.170	12.82
Ethylbenzene	0.432	176	Ethylbenzene	1.225	12.24
Xylenes	3.22	639	Xylenes	1.818	8.25
Naphthalene	0.156	1543	Naphthalene	2.975	5.04
MtBE	0.05	11	MtBE	1.014	14.79
EDB	0.0012	28	EDB	1.036	14.48
1,2-DCA		17.5	1,2-DCA	1.022	14.67
			$x$ <input type="text" value="0"/> ft $y$ <input type="text" value="0"/> ft $z$ <input type="text" value="0"/> ft	$x$ <input type="text" value="0"/> ft $y$ <input type="text" value="0"/> ft $z$ <input type="text" value="0"/> ft	
$C(x, y, z, t) = \left( \frac{C_0}{8} \right) \exp \left[ \left( \frac{x}{2\alpha_x} \right) \left( 1 - \sqrt{1 + \frac{4\lambda\alpha_x}{v}} \right) \right] \operatorname{erfc} \left[ \frac{x - vt \sqrt{1 + \frac{4\lambda\alpha_x}{v}}}{2\sqrt{\alpha_x vt}} \right] \left\{ \operatorname{erf} \left[ \frac{y + \frac{Y}{2}}{2\sqrt{\alpha_y x}} \right] - \operatorname{erf} \left[ \frac{y - \frac{Y}{2}}{2\sqrt{\alpha_y x}} \right] \right\} \left\{ \operatorname{erf} \left[ \frac{z + Z}{2\sqrt{\alpha_z x}} \right] - \operatorname{erf} \left[ \frac{z - Z}{2\sqrt{\alpha_z x}} \right] \right\}$					





### Benzene Calibration

#### Spatial Calibration Data

(centerline)

x	C <sub>obs</sub> (mg/L)	C <sub>sim</sub> (mg/L)
0	0.243	0.243
23.5	0.143	0.143
47	0.078	0.078
70.5	0.043	0.043
94	0.024	0.024
117.5	0.014	0.014
141	0.008	0.008
164.5	0.005	0.005
188	0.003	0.003
211.5	0.002	0.002
235	0.001	0.001

#### Temporal Calibration Data

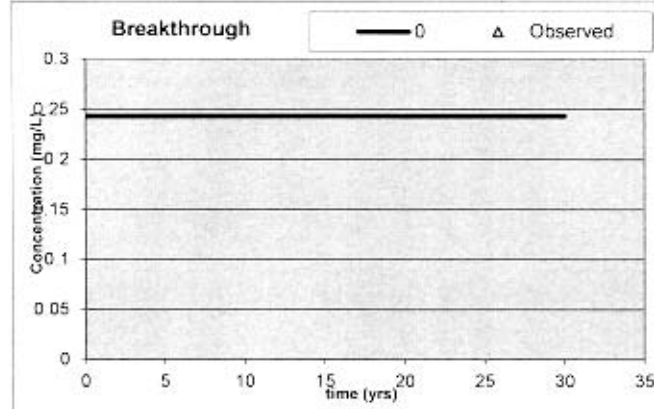
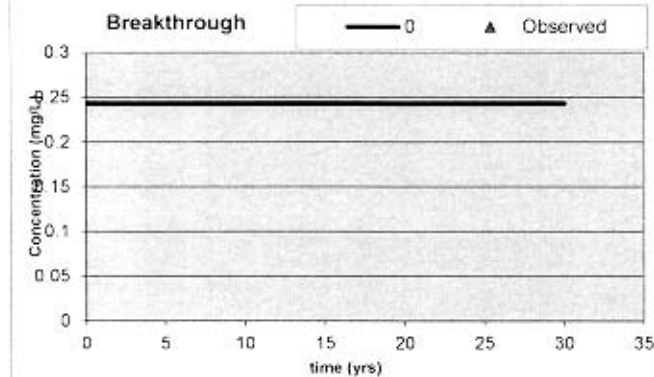
t (yrs)	0		0	
	C <sub>obs</sub> (mg/L)	C <sub>sim</sub> (mg/L)	C <sub>obs</sub> (mg/L)	C <sub>sim</sub> (mg/L)
0		0.243		0.243
3		0.243		0.243
6		0.243		0.243
9		0.243		0.243
12		0.243		0.243
15		0.243		0.243
18		0.243		0.243
21		0.243		0.243
24		0.243		0.243
27		0.243		0.243
30		0.243		0.243

Site ID 18856

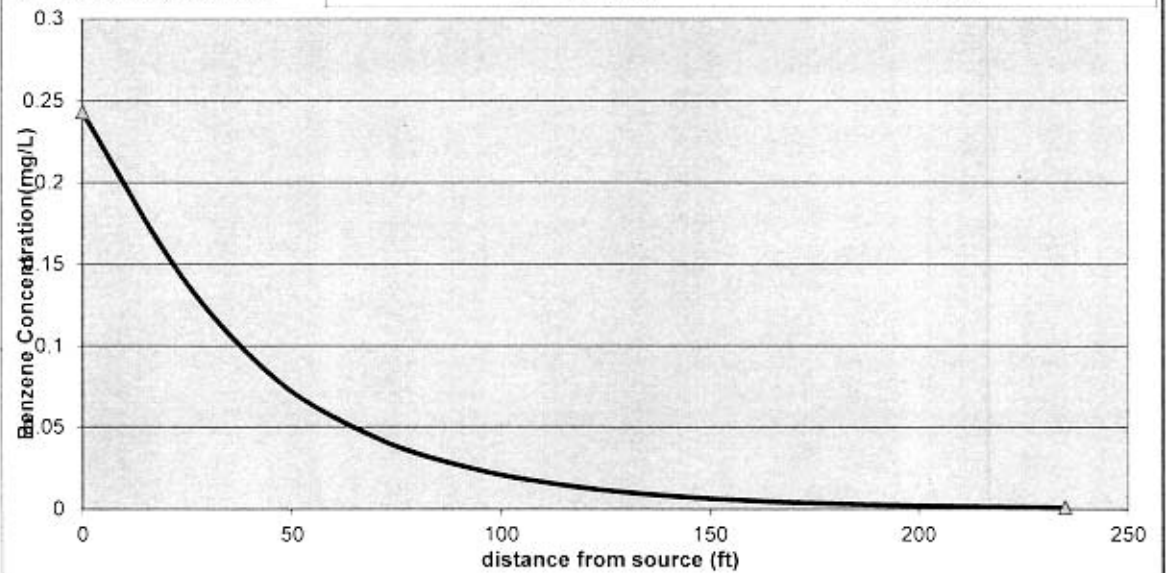
Site Name Steady Simmons

#### Model Calibration Parameters

t <sub>1/2</sub>	2	yrs	λ	0.3465	yr <sup>-1</sup>
v <sub>x</sub>	15	ft/yr			
R	1.104				
v <sub>R</sub>	13.591	ft/yr	C <sub>source</sub>	0.243	mg/L
L <sub>p</sub>	235	ft	t <sub>sim</sub>	30	yrs
α <sub>x</sub>	12.10163	ft			
α <sub>y</sub>	1.210163	ft			
α <sub>z</sub>	1E-99	ft			

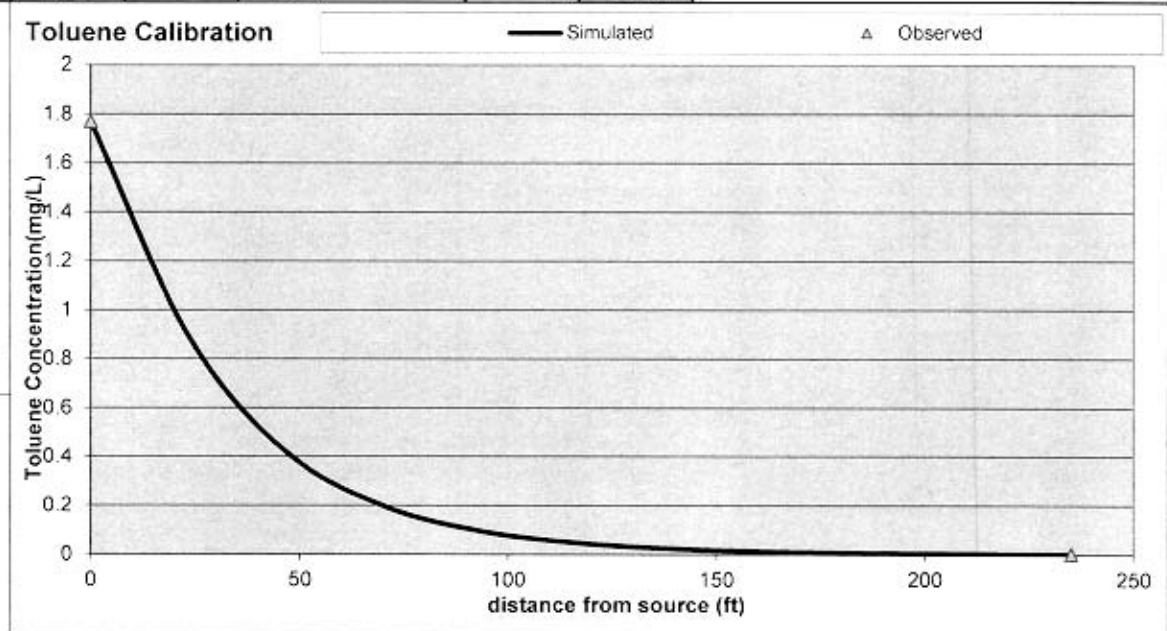
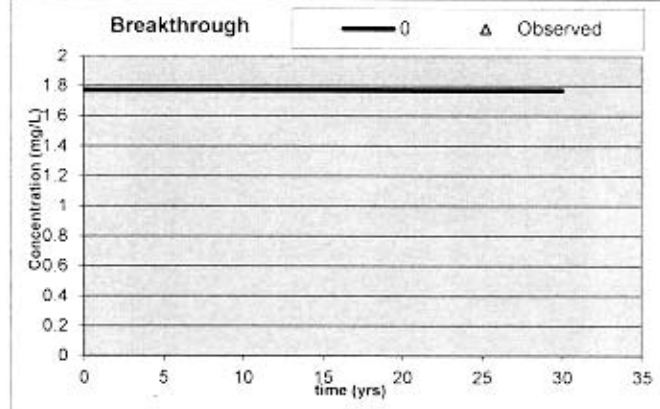
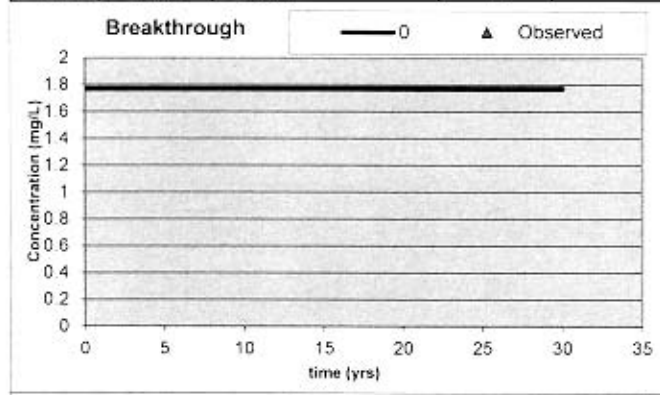


### Benzene Calibration



Source	23.5	47	70.5	94	117.5	141	164.5	188	211.5	235
0	0.14329454	0.07814175	0.04308974	0.02419405	0.01378303	0.0079397	0.004613	0.002699	0.001588	0.000938
0	0.14329454	0.07814175	0.04308974	0.02419405	0.01378303	0.0079397	0.004613	0.002699	0.001588	0.000938
0	0.14329454	0.07814175	0.04308974	0.02419405	0.01378303	0.0079397	0.004613	0.002699	0.001588	0.000938
0	0.14329454	0.07814175	0.04308974	0.02419405	0.01378303	0.0079397	0.004613	0.002699	0.001588	0.000938
0	0.14329454	0.07814175	0.04308974	0.02419405	0.01378303	0.0079397	0.004613	0.002699	0.001588	0.000938

Toluene Calibration									
Spatial Calibration Data (centerline)			Temporal Calibration Data					Site ID 18856	
x	C <sub>obs</sub> (mg/L)	C <sub>sim</sub> (mg/L)	t (yrs)	C <sub>obs</sub> (mg/L)	C <sub>sim</sub> (mg/L)	C <sub>obs</sub> (mg/L)	C <sub>sim</sub> (mg/L)	Site Name Steady Simmons	
0	1.77	1.77	0		1.77		1.77	Model Calibration Parameters	
23.5		0.892	3		1.770		1.770	t <sub>1/2</sub>	1.5 yrs
47		0.416	6		1.770		1.770	v <sub>x</sub>	15 ft/yr
70.5		0.196	9		1.770		1.770	R	1.170
94		0.094	12		1.770		1.770	v <sub>R</sub>	12.818 ft/yr
117.5		0.046	15		1.770		1.770	L <sub>p</sub>	235 ft
141		0.023	18		1.770		1.770	α <sub>x</sub>	12.10163 ft
164.5		0.011	21		1.770		1.770	α <sub>y</sub>	1.210163 ft
188		0.006	24		1.770		1.770	α <sub>z</sub>	1E-99 ft
211.5		0.003	27		1.770		1.770	C <sub>source</sub>	1.77 mg/L
235	0.001	0.001	30		1.770		1.770	t <sub>sim</sub>	30 yrs



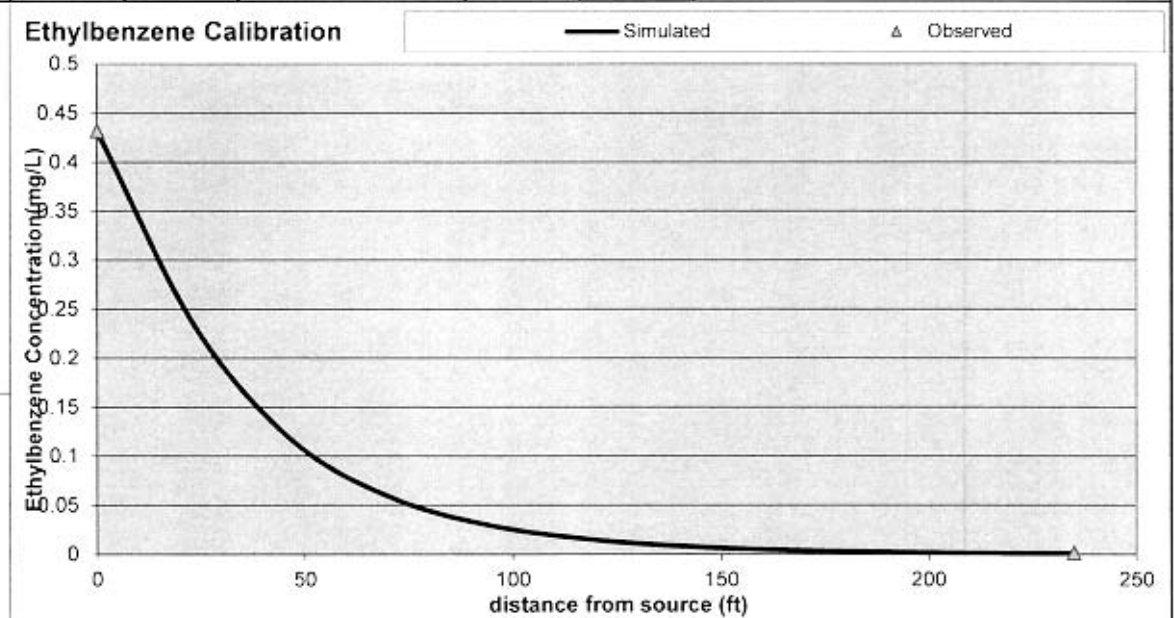
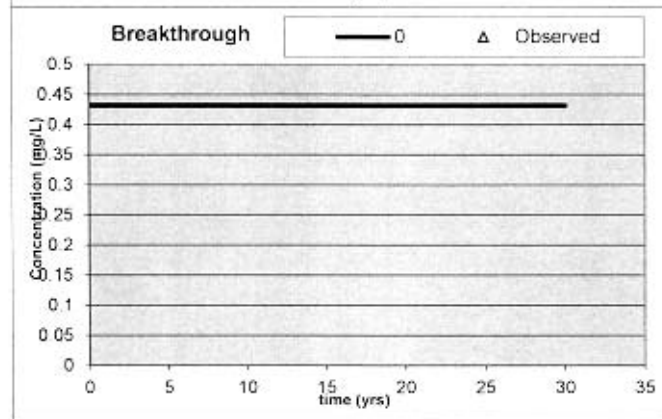
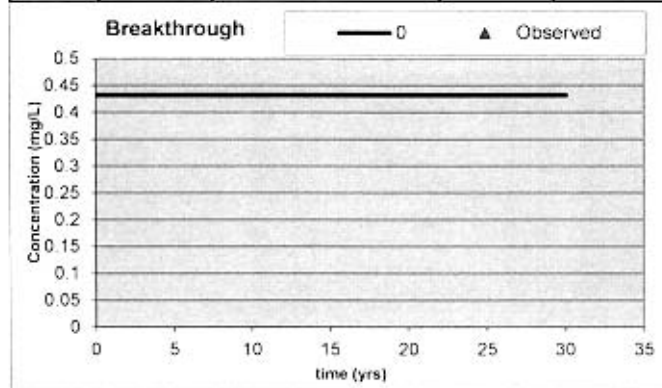
Source	23.5	47	70.5	94	117.5	141	164.5	188	211.5	235
0	0.89181448	0.41553332	0.19578276	0.09392627	0.04571948	0.022503	0.011172	0.005584	0.002807	0.001417
0	0.89181448	0.41553332	0.19578276	0.09392627	0.04571948	0.022503	0.011172	0.005584	0.002807	0.001417
0	0.89181448	0.41553332	0.19578276	0.09392627	0.04571948	0.022503	0.011172	0.005584	0.002807	0.001417
0	0.89181448	0.41553332	0.19578276	0.09392627	0.04571948	0.022503	0.011172	0.005584	0.002807	0.001417
0	0.89181448	0.41553332	0.19578276	0.09392627	0.04571948	0.022503	0.011172	0.005584	0.002807	0.001417

### Ethylbenzene Calibration

Spatial Calibration Data (centerline)			Temporal Calibration Data					Site ID 18856	
x	C <sub>obs</sub> (mg/L)	C <sub>sim</sub> (mg/L)	t (yrs)	C <sub>obs</sub> (mg/L)	C <sub>sim</sub> (mg/L)	C <sub>obs</sub> (mg/L)	C <sub>sim</sub> (mg/L)	Site Name	Steady Simmons
0	0.432	0.432	0		0.432		0.432		
23.5		0.233	3		0.432		0.432		
47		0.116	6		0.432		0.432		
70.5		0.058	9		0.432		0.432		
94		0.030	12		0.432		0.432		
117.5		0.016	15		0.432		0.432		
141		0.008	18		0.432		0.432		
164.5		0.004	21		0.432		0.432		
188		0.002	24		0.432		0.432		
211.5		0.001	27		0.432		0.432		
235	0.001	0.001	30		0.432		0.432		

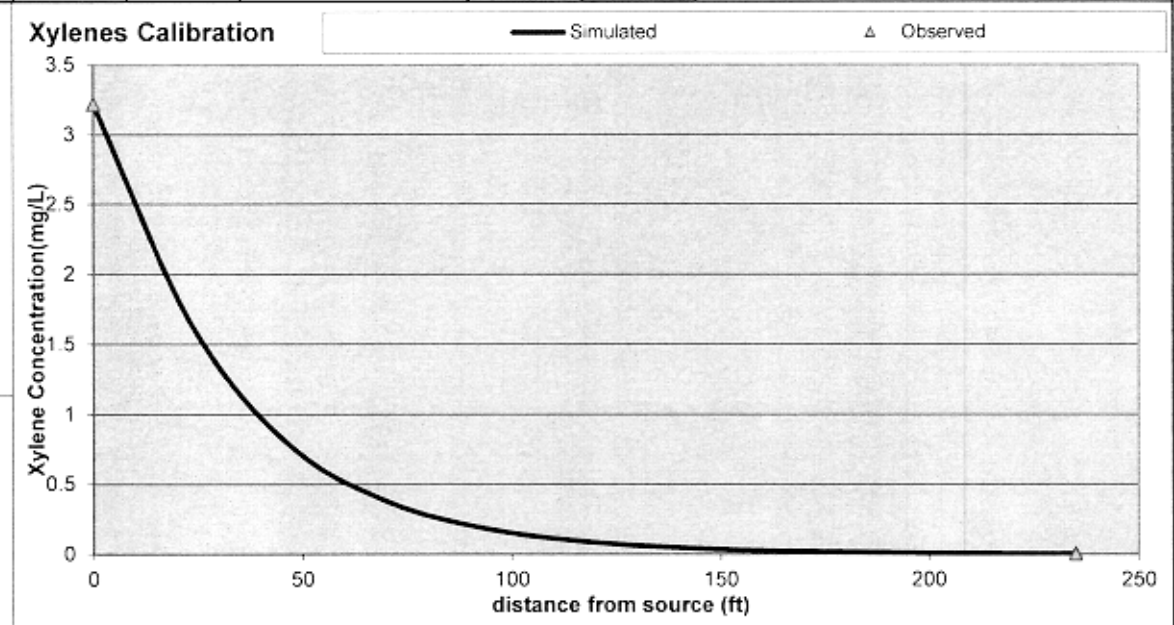
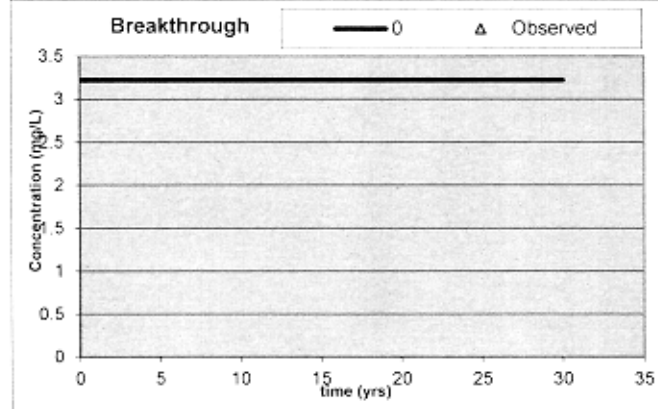
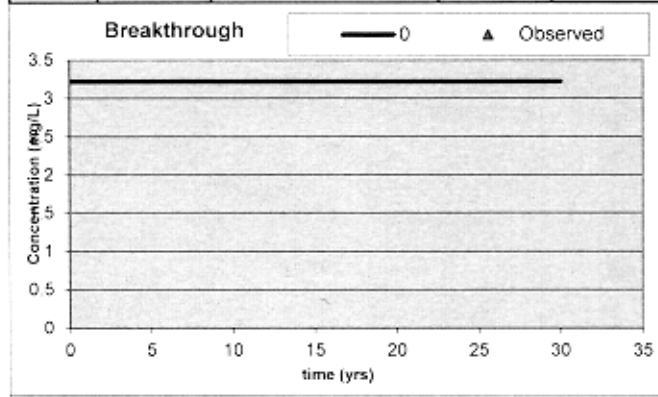
Model Calibration Parameters				
t <sub>1/2</sub>	1.8	yrs	λ	0.385 yr <sup>-1</sup>
v <sub>x</sub>	15	ft/yr		
R	1.225			
v <sub>R</sub>	12.242	ft/yr	C <sub>source</sub>	0.432 mg/L
L <sub>p</sub>	235	ft	t <sub>sim</sub>	30 yrs
α <sub>x</sub>	12.10163	ft		
α <sub>y</sub>	1.210163	ft		
α <sub>z</sub>	1E-99	ft		



Source	23.5	47	70.5	94	117.5	141	164.5	188	211.5	235
0	0.23264117	0.11585626	0.05834312	0.02991602	0.01556394	0.0081877	0.004345	0.002321	0.001247	0.000673
0	0.23264117	0.11585626	0.05834312	0.02991602	0.01556394	0.0081877	0.004345	0.002321	0.001247	0.000673
0	0.23264117	0.11585626	0.05834312	0.02991602	0.01556394	0.0081877	0.004345	0.002321	0.001247	0.000673
0	0.23264117	0.11585626	0.05834312	0.02991602	0.01556394	0.0081877	0.004345	0.002321	0.001247	0.000673
0	0.23264117	0.11585626	0.05834312	0.02991602	0.01556394	0.0081877	0.004345	0.002321	0.001247	0.000673

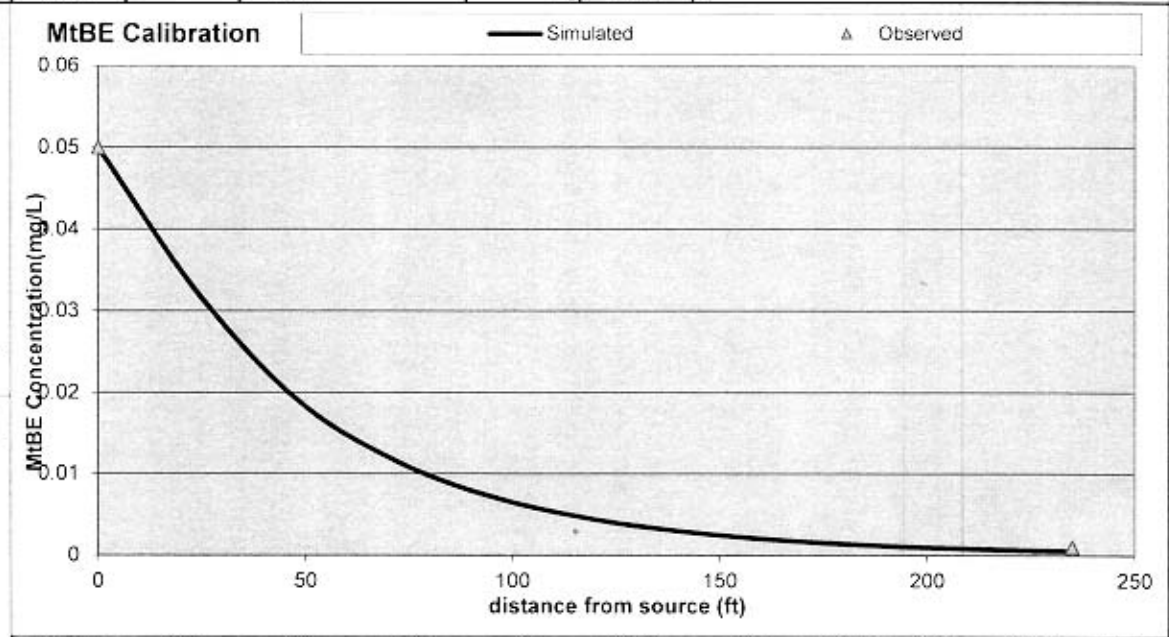
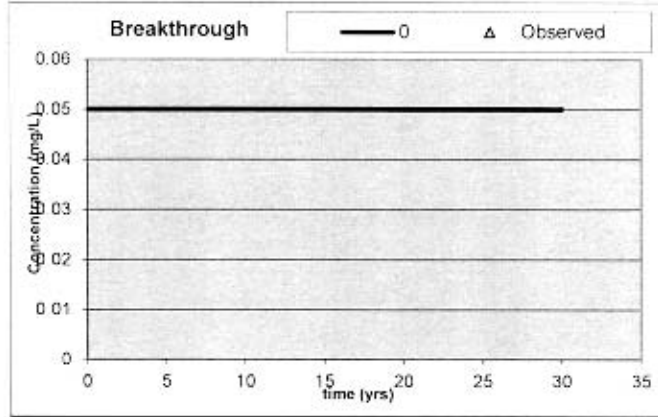
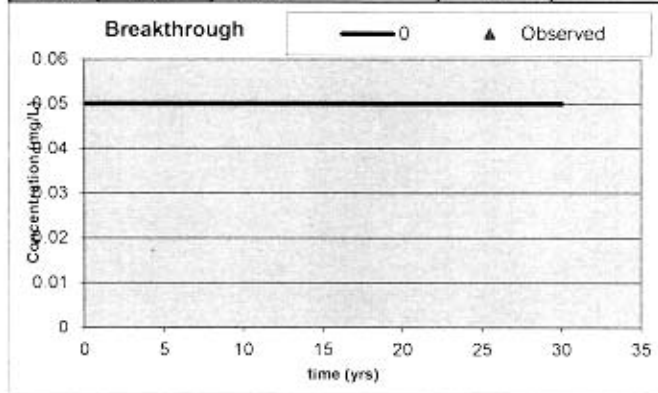
### Xylenes Calibration

Spatial Calibration Data (centerline)			Temporal Calibration Data					Site ID 18856	
x	C <sub>obs</sub> (mg/L)	C <sub>sim</sub> (mg/L)	t (yrs)	C <sub>obs</sub> (mg/L)	C <sub>sim</sub> (mg/L)	C <sub>obs</sub> (mg/L)	C <sub>sim</sub> (mg/L)	Site Name	Steady Simmons
0	3.22	3.22	0		3.22		3.22	Model Calibration Parameters	
23.5		1.647	3		3.220		3.220	t <sub>1/2</sub>	2.4 yrs
47		0.779	6		3.220		3.220	v <sub>x</sub>	15 ft/yr
70.5		0.372	9		3.220		3.220	R	1.818
94		0.181	12		3.220		3.220	v <sub>R</sub>	8.251 ft/yr
117.5		0.090	15		3.220		3.220	L <sub>p</sub>	235 ft
141		0.045	18		3.220		3.220	α <sub>x</sub>	12.10163 ft
164.5		0.023	21		3.220		3.220	α <sub>y</sub>	1.210163 ft
188		0.011	24		3.220		3.220	α <sub>z</sub>	1E-99 ft
211.5		0.006	27		3.220		3.220	C <sub>source</sub>	3.22 mg/L
235	0.003	0.003	30		3.220		3.220	t <sub>sim</sub>	30 yrs



Source	23.5	47	70.5	94	117.5	141	164.5	188	211.5	235
0	1.64681855	0.77887057	0.37249488	0.18138986	0.08961619	0.0447635	0.022544	0.011421	0.005806	0.002953
0	1.64681855	0.77887057	0.37249488	0.18138986	0.08961619	0.0447635	0.022544	0.011421	0.005806	0.002953
0	1.64681855	0.77887057	0.37249488	0.18138986	0.08961619	0.0447635	0.022544	0.011421	0.005806	0.002953
0	1.64681855	0.77887057	0.37249488	0.18138986	0.08961619	0.0447635	0.022544	0.011421	0.005806	0.002953
0	1.64681855	0.77887057	0.37249488	0.18138986	0.08961619	0.0447635	0.022544	0.011421	0.005806	0.002953

MtBE Calibration											
Spatial Calibration Data (centerline)			Temporal Calibration Data						Site ID	18856	
			0			0			Site Name	Steady Simmons	
x	C <sub>obs</sub> (mg/L)	C <sub>sim</sub> (mg/L)	t (yrs)	C <sub>obs</sub> (mg/L)	C <sub>sim</sub> (mg/L)	C <sub>obs</sub> (mg/L)	C <sub>sim</sub> (mg/L)	Model Calibration Parameters			
0	0.05	0.05	0		0.05		0.05	t <sub>1/2</sub>	2.4 yrs	λ	0.28875 yr <sup>-1</sup>
23.5		0.032	3		0.050		0.050	v <sub>x</sub>	15 ft/yr		
47		0.020	6		0.050		0.050	R	1.014		
70.5		0.012	9		0.050		0.050	v <sub>R</sub>	14.792 ft/yr	C <sub>source</sub>	0.05 mg/L
94		0.007	12		0.050		0.050	L <sub>p</sub>	235 ft	t <sub>sim</sub>	30 yrs
117.5		0.005	15		0.050		0.050	α <sub>x</sub>	12.10163 ft		
141		0.003	18		0.050		0.050	α <sub>y</sub>	1.210163 ft		
164.5		0.002	21		0.050		0.050	α <sub>z</sub>	1E-99 ft		
188		0.001	24		0.050		0.050				
211.5		0.001	27		0.050		0.050				
235	0.001	0.001	30		0.050		0.050				



Source	23.5	47	70.5	94	117.5	141	164.5	188	211.5	235
0	0.03249355	0.01952784	0.01186721	0.00734323	0.00461028	0.0029268	0.001874	0.001208	0.000783	0.00051
0	0.03249355	0.01952784	0.01186721	0.00734323	0.00461028	0.0029268	0.001874	0.001208	0.000783	0.00051
0	0.03249355	0.01952784	0.01186721	0.00734323	0.00461028	0.0029268	0.001874	0.001208	0.000783	0.00051
0	0.03249355	0.01952784	0.01186721	0.00734323	0.00461028	0.0029268	0.001874	0.001208	0.000783	0.00051
0	0.03249355	0.01952784	0.01186721	0.00734323	0.00461028	0.0029268	0.001874	0.001208	0.000783	0.00051

### Naphthalene Calibration

#### Spatial Calibration Data (centerline)

x	C <sub>obs</sub> (mg/L)	C <sub>sim</sub> (mg/L)
0	0.156	0.156
23.5		0.127
47		0.095
70.5		0.071
94		0.053
117.5		0.038
141		0.026
164.5		0.017
188		0.010
211.5		0.005
235	0.005	0.003

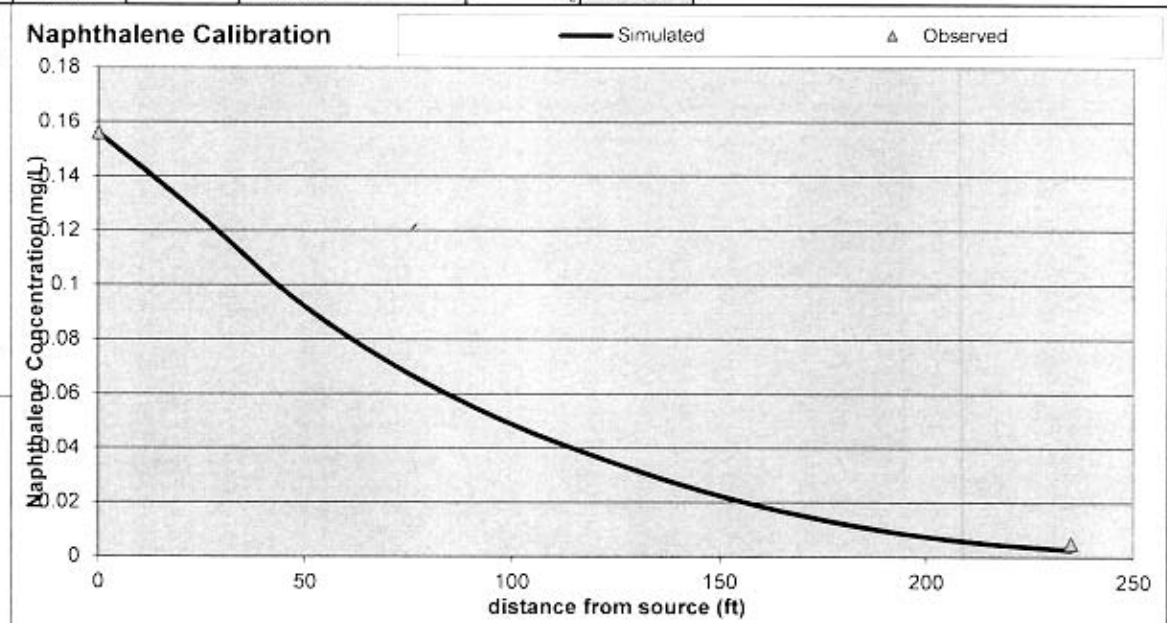
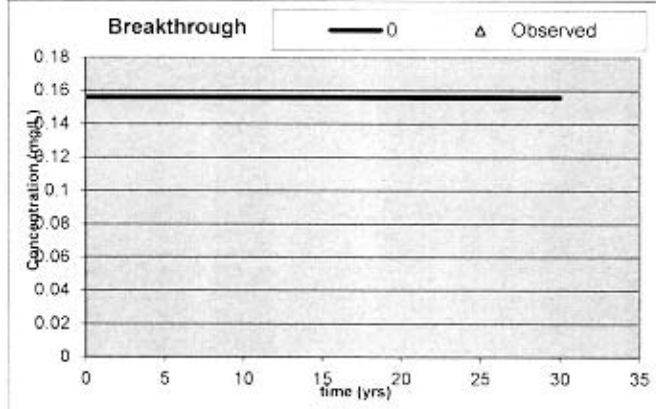
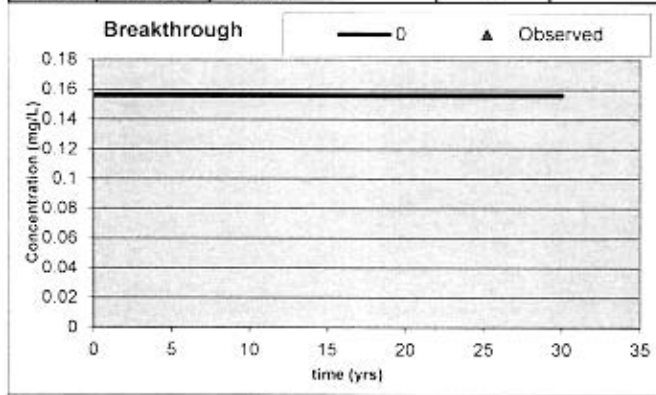
#### Temporal Calibration Data

t (yrs)	0		0	
	C <sub>obs</sub> (mg/L)	C <sub>sim</sub> (mg/L)	C <sub>obs</sub> (mg/L)	C <sub>sim</sub> (mg/L)
0		0.156		0.156
3		0.156		0.156
6		0.156		0.156
9		0.156		0.156
12		0.156		0.156
15		0.156		0.156
18		0.156		0.156
21		0.156		0.156
24		0.156		0.156
27		0.156		0.156
30		0.156		0.156

Site ID	18856
Site Name	Steady Simmons

#### Model Calibration Parameters

t <sub>1/2</sub>	20	yrs	λ	0.03465	yr <sup>-1</sup>
v <sub>x</sub>	15	ft/yr			
R	2.975				
v <sub>R</sub>	5.042	ft/yr	C <sub>source</sub>	0.156	mg/L
L <sub>p</sub>	235	ft	t <sub>sim</sub>	30	yrs
α <sub>x</sub>	12.10163	ft			
α <sub>y</sub>	1.210163	ft			
α <sub>z</sub>	1E-99	ft			



Source	23.5	47	70.5	94	117.5	141	164.5	188	211.5	235
0	0.12720802	0.09543997	0.07135683	0.05291459	0.03819744	0.0263016	0.016946	0.010046	0.005404	0.002609
0	0.12720802	0.09543997	0.07135683	0.05291459	0.03819744	0.0263016	0.016946	0.010046	0.005404	0.002609
0	0.12720802	0.09543997	0.07135683	0.05291459	0.03819744	0.0263016	0.016946	0.010046	0.005404	0.002609
0	0.12720802	0.09543997	0.07135683	0.05291459	0.03819744	0.0263016	0.016946	0.010046	0.005404	0.002609
0	0.12720802	0.09543997	0.07135683	0.05291459	0.03819744	0.0263016	0.016946	0.010046	0.005404	0.002609

### EDB Calibration

#### Spatial Calibration Data (centerline)

x	C <sub>obs</sub> (mg/L)	C <sub>sim</sub> (mg/L)
0	0.0012	0.00120
23.5		0.00081
47		0.00051
70.5		0.00032
94		0.00021
117.5		0.00014
141		0.00009
164.5		0.00006
188		0.00004
211.5		0.00003
235	0.00002	0.00002

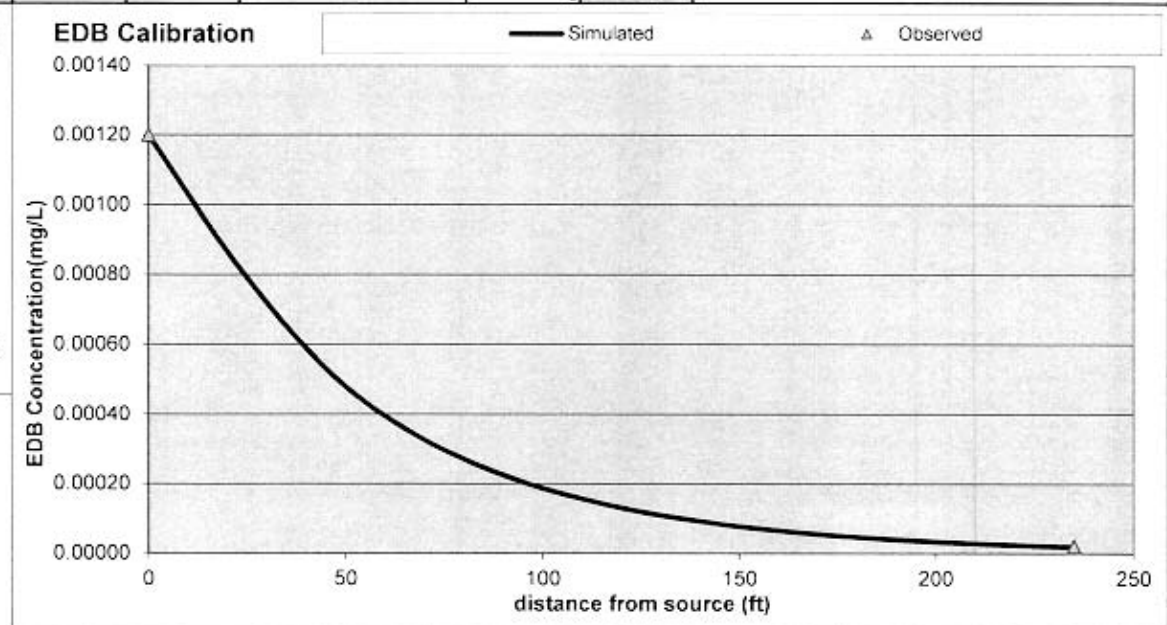
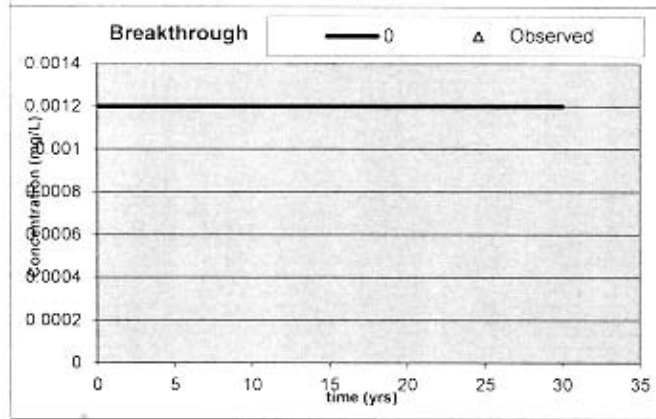
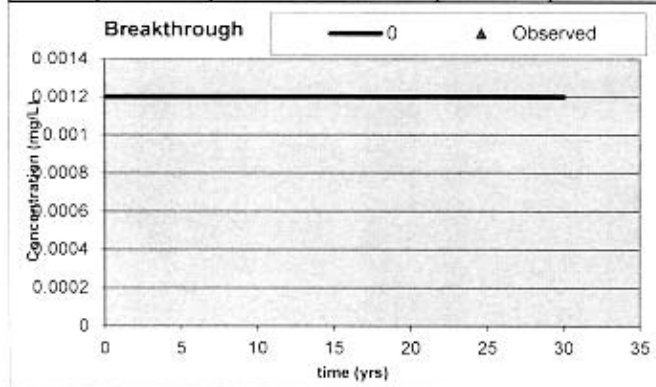
#### Temporal Calibration Data

t (yrs)	0		0	
	C <sub>obs</sub> (mg/L)	C <sub>sim</sub> (mg/L)	C <sub>obs</sub> (mg/L)	C <sub>sim</sub> (mg/L)
0		0.00120		0.00120
3		0.00120		0.00120
6		0.00120		0.00120
9		0.00120		0.00120
12		0.00120		0.00120
15		0.00120		0.00120
18		0.00120		0.00120
21		0.00120		0.00120
24		0.00120		0.00120
27		0.00120		0.00120
30		0.00120		0.00120

Site ID 18856  
Site Name Steady Simmons

#### Model Calibration Parameters

t <sub>1/2</sub>	2.8	yr	λ	0.2475	yr <sup>-1</sup>
v <sub>s</sub>	15	ft/yr			
R	1.036				
v <sub>R</sub>	14.481	ft/yr	C <sub>source</sub>	0.0012	mg/L
L <sub>p</sub>	235	ft	t <sub>sim</sub>	30	yr
α <sub>x</sub>	12.10163	ft			
α <sub>y</sub>	1.210163	ft			
α <sub>z</sub>	1E-99	ft			



Source	23.5	47	70.5	94	117.5	141	164.5	188	211.5	235
0	0.00081295	0.00050931	0.00032265	0.00020813	0.00013622	9.015E-05	6.02E-05	4.04E-05	2.73E-05	1.85E-05
0	0.00081295	0.00050931	0.00032265	0.00020813	0.00013622	9.015E-05	6.02E-05	4.04E-05	2.73E-05	1.85E-05
0	0.00081295	0.00050931	0.00032265	0.00020813	0.00013622	9.015E-05	6.02E-05	4.04E-05	2.73E-05	1.85E-05
0	0.00081295	0.00050931	0.00032265	0.00020813	0.00013622	9.015E-05	6.02E-05	4.04E-05	2.73E-05	1.85E-05
0	0.00081295	0.00050931	0.00032265	0.00020813	0.00013622	9.015E-05	6.02E-05	4.04E-05	2.73E-05	1.85E-05

SSTLs

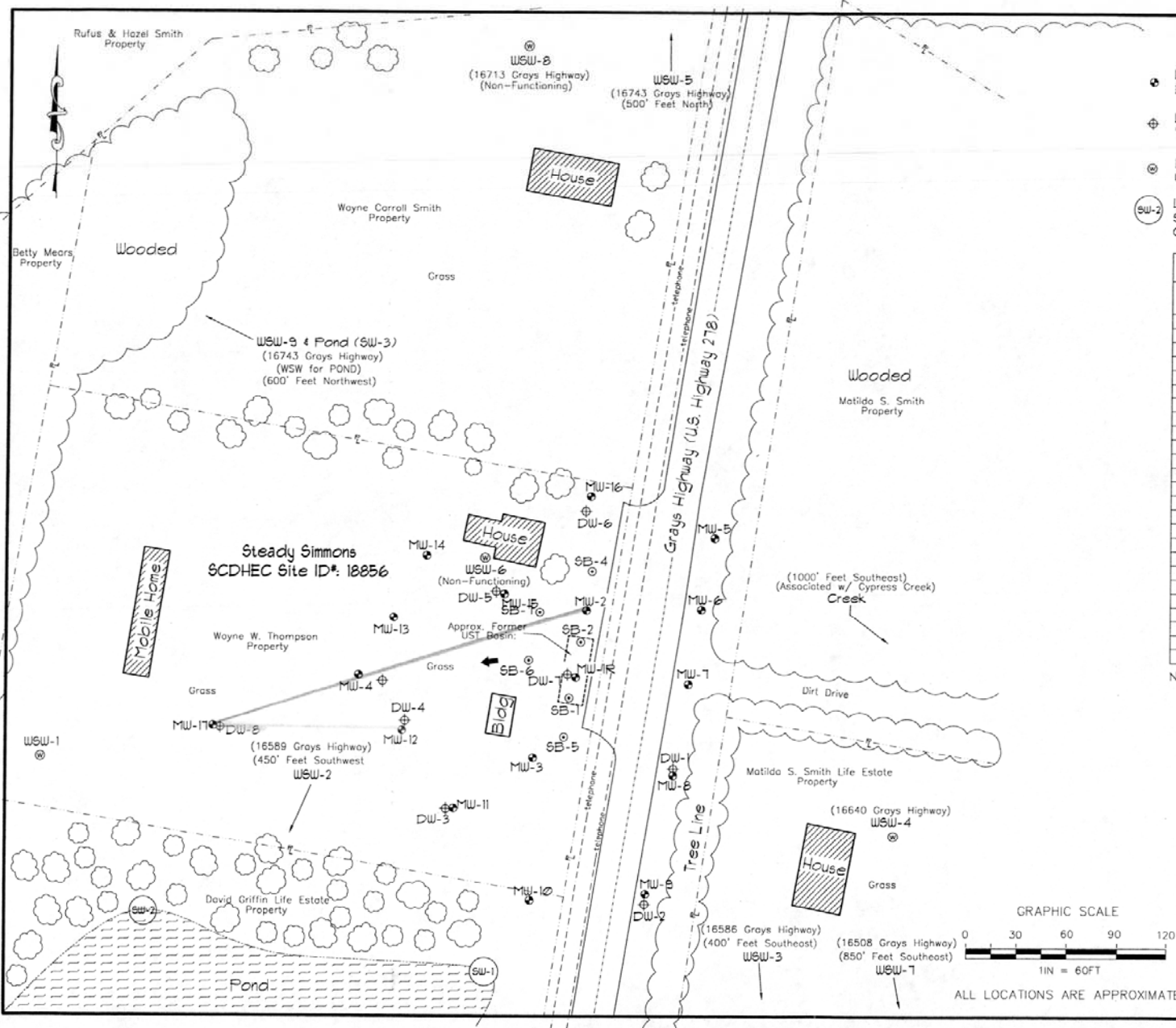
t 1000 yrs

UST Permit # 18856

Site Name: Steady Simmons

SSTLs in mg/L				RBSLs (mg/L):								
MW #	x (ft)	y (ft)	z (ft)	0.005	1.000	0.700	10.000	0.040	0.025	0.00005		
				Benzene SSTL	Toluene SSTL	Ethylbenzene SSTL	Xylenes SSTL	MtBE SSTL	Naphthalene SSTL	EDB SSTL		
MW-1R	90	0	0	0.046	16.649	9.032	157.228	0.251	0.064	0.00027		
MW-2	70	0	0	0.028	8.899	5.109	85.114	0.167	0.052	0.00018		
MW-3	120	0	0	0.094	41.767	20.814	386.987	0.456	0.087	0.00046		
MW-12	115	0	0	0.083	35.881	18.135	333.508	0.413	0.082	0.00042		
				$\lambda$ (yr <sup>-1</sup> ):	0.347	0.462	0.385	0.289	0.289	0.035	0.248	
				R:	1.104	1.170	1.225	1.818	1.014	2.975	1.036	
				Pure Substance Solubility:	1750	526	169	175	5110	31	4321	
				Effective Solubility:	44.39	26.54	3.7	21.68	173	6.7	1.9	





**Explanation:**

- ⊙ Location of Watertable Bracketing Monitoring Well
- ⊕ Location of Double Cased "Deep" Monitoring Well
- ⊙ Location of Water Supply Well
- ⊙ (SW-2) Location of Surface Water Sample Collection
- ↑ Estimated Groundwater Flow Direction
- Estimated Location of Removed Underground Storage Tanks
- - - Property Line
- Telephone Under Ground Telephone
- Pond Edge

Potentiometric Data				
Well	Screened Interval(ft.)	Depth to Water(ft.)	Well Head Elevation	Groundwater Elevation
MW-1R	7-17	NM	69.69	NM
MW-2	7-17	NM	70.10	NM
MW-3	7-17	NM	68.59	NM
MW-4	7-17	NM	67.95	NM
MW-5	5-15	NM	71.78	NM
MW-6	5-15	NM	71.47	NM
MW-7	5-15	NM	71.27	NM
MW-8	5-15	NM	70.90	NM
MW-9	5-15	NM	70.70	NM
MW-10	5-15	NM	66.65	NM
MW-11	5-15	NM	67.16	NM
MW-12	5-15	NM	67.18	NM
MW-13	5-15	NM	68.50	NM
MW-14	5-15	NM	70.14	NM
MW-15	10-20	NM	70.01	NM
MW-16	10-20	NM	71.65	NM
MW-17	4-14	3.20	68.16	64.96
DW-1	35-40	NM	70.95	NM
DW-2	35-40	NM	70.89	NM
DW-3	35-40	NM	67.20	NM
DW-4	33-38	NM	67.51	NM
DW-5	33-38	NM	70.02	NM
DW-6	31-36	NM	71.41	NM
DW-7	31-36	NM	69.82	NM
DW-8	35-40	11.30	67.83	56.53

Notes: Depth to groundwater measured on March 10, 2016.  
Site Datum Based on Assumed Spot Elevation.

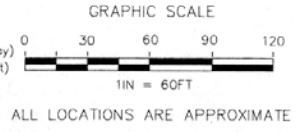
NM = Not Measured  
Drawing Based on MECI Field Notes, Tax Maps, RLS Survey of the Site by Jay S. Joshi dated December-7, 2011, and Figure 2 by Crawford Environmental Services.

**Potentiometric Data Site Map**

Steady Simmons  
16661 Grays Highway  
Early Branch, South Carolina  
SCDHEC Site ID 18856

**Midlands**  
Environmental  
Consultants, Inc.

JOB NO. 16-5552  
DATE November 15, 2016  
FIGURE  
**5**





UNDERGROUND STORAGE TANK PROGRAM  
BUREAU OF LAND AND WASTE MANAGEMENT  
2600 Bull Street, Columbia, South Carolina 29201  
Telephone: 803-898-2544

**MEMORANDUM**

TO: Midlands Environmental Consultants, Inc

FROM: John Bryant

RE: Site Specific Work Plan Request

Facility Name: Steady Simmons

Permit Number: 18856

County: Jasper

Work To Be Completed: Purge and Sample all monitoring wells and water supply wells associated with the site.

Total Number of Monitoring Well Samples: 28

Analysis Being Requested: BTEXNM, 1,2 DCA, 8-Oxys and EDB (8260 & 8011)

Total Number of Water Supply Well Samples: 9

Analysis Being Requested: BTEXNM, 1,2 DCA, 8-Oxys and EDB (524.2, 504.1 & 8260)



**BRYAN SHANE, P.G.  
MIDLANDS ENVIRONMENTAL CONSULTANTS, INC.  
PO BOX 854  
LEXINGTON SC 29071**

**JUL 19 2017**

**Re: Site Specific Work Plan Request**  
Groundwater Sampling Contract  
Solicitation # IFB-5400012906, PO#4600559329

Dear Mr. Shane:

In accordance with bid solicitation # IFB-5400012906 and the UST Management Division Quality Assurance Program Plan (QAPP), Revision 3.1 it is requested that you submit a Site Specific Work Plan for each site attached. The plans must be submitted **within 15 business days** to my attention. The project manager for each site will issue a notice to proceed once the plan has been reviewed and approved.

Please contact me with the sampling schedule before commencing work at these facilities. In addition, a weekly update for each site is required to be submitted via e-mail to the site's project manager and myself. If you have any questions or need further assistance, please contact me at (803) 898-0606 or [bryantjc@dhec.sc.gov](mailto:bryantjc@dhec.sc.gov).

Sincerely,

A handwritten signature in black ink, appearing to read "J. C. Bryant", written in a cursive style.

John C. Bryant, Hydrogeologist  
Corrective Action Section  
UST Management Division  
Bureau of Land & Waste Management

enc: Site Information Packages

cc: Technical Files

 **Midlands  
Environmental  
Consultants, Inc.**

July 28, 2017

Mr. John Bryant, Hydrogeologist  
Corrective Action Section  
Assessment and Corrective Action Division  
Underground Storage Tank Program  
Bureau of Land and Waste Management  
South Carolina Department of Health  
and Environmental Control  
2600 Bull Street  
Columbia, South Carolina 29201

Subject: Site-Specific Work Plan  
Steady Simmons  
Early Branch, South Carolina  
SCDHEC Site ID Number 18856  
MECI Project Number 17-6107  
Certified Site Rehabilitation Contractor UCC-0009




Dear Mr. Bryant,

Midlands Environmental Consultants Inc. (MECI) is pleased to submit the attached Site-Specific Work Plan for the referenced site.

On July 25, 2017, MECI personnel performed a site visit to the subject site to evaluate site conditions, locate monitoring wells and identify potential problems for future sampling activities.

If you have any question or comments please feel free to contact us at 803-808-2043.

Sincerely,  
**Midlands Environmental Consultants, Inc.**

  
Kyle V. Pudney  
Project Biologist

  
Jeff L. Coleman  
Senior Scientist



**Site-Specific Work Plan for Approved ACQAP  
Underground Storage Tank Management Division**

To: Mr. John Bryant (SCDHEC Project Manager)  
 From: Jeff L. Coleman (Contractor Project Manager)  
 Contractor: Midlands Environmental Consultants, Inc. UST Contractor Certification Number: 009

Facility Name: Steady Simmons UST Permit #: 18856  
 Facility Address: 1661 Grays Highway, Early Branch, SC 29916  
 Responsible Party: Steady Simmons Phone: N/A  
 RP Address: N/A  
 Property Owner (if different): Wayne Thompson  
 Property Owner Address: 16657 Grays Highway, Early Branch, SC 29916  
 Current Use of Property: Abandoned Property

**Scope of Work** (Please check all that apply)

IGWA       Tier II       Groundwater Sampling       GAC  
 Tier I       Monitoring Well Installation       Other \_\_\_\_\_

**Analyses** (Please check all that apply)

Groundwater/Surface Water:

BTEXNMDCA (8260B)       Lead       BOD       Methane  
 Oxygenates (8260B)       8 RCRA Metals       Nitrate       Ethanol  
 EDB (8011)       TPH       Sulfate       Dissolved Iron  
 PAH (8270D)       pH       Other \_\_\_\_\_

Drinking Water Supply Wells:

BTEXNMDCA (524.2)       Mercury (200.8 245.1 or 245.2)       EDB (504.1)  
 Oxygenates & Ethanol (8260B)       RCRA Metals (200.8)

Soil:

BTEXNM       Lead       RCRA Metals       TPH-DRO (3550B/8015B)       Grain Size  
 PAH       Oil & Grease (9071)       TPH-GRO (5030B/8015B)       TOC

Air:

BTEXN

**Sample Collection** (Estimate the number of samples of each matrix that are expected to be collected.)

\_\_\_\_\_ Soil      9 Water Supply Wells      \_\_\_\_\_ Air      2 Field Blank  
28 Monitoring Wells      3 Surface Water      3 Duplicate      2 Trip Blank

**Field Screening Methodology**

Estimate number and total completed depth for each point, and include their proposed locations on the attached map.

# of shallow points proposed: \_\_\_\_\_ Estimated Footage: \_\_\_\_\_ feet per point  
 # of deep points proposed: \_\_\_\_\_ Estimated Footage: \_\_\_\_\_ feet per point  
 Field Screening Methodology: \_\_\_\_\_

**Permanent Monitoring Wells**

Estimate number and total completed depth for each well, and include their proposed locations on the attached map.

# of shallow wells: \_\_\_\_\_ Estimated Footage: \_\_\_\_\_ feet per point  
 # of deep wells: \_\_\_\_\_ Estimated Footage: \_\_\_\_\_ feet per point  
 # of recovery wells: \_\_\_\_\_ Estimated Footage: \_\_\_\_\_ feet per point  
 Comments, if warranted: \_\_\_\_\_

UST Permit #: <u>18856</u> Facility Name: <u>Steady Simmons</u>	
<b>Implementation Schedule</b> (Number of calendar days from approval) Field Work Start-Up: <u>7/27/2017</u> Field Work Completion: <u>8/27/2017</u> Report Submittal: <u>9/27/2017</u> # of Copies Provided to Property Owners: <u>0</u>	
<b>Aquifer Characterization</b> Pump Test: <input type="checkbox"/> Slug Test: <input type="checkbox"/> (Check one and provide explanation below for choice) _____ _____	
<b>Investigation Derived Waste Disposal</b> Soil: _____ Tons Purge Water: <u>300.0</u> Gallons Drilling Fluids: _____ Gallons Free-Phase Product: _____ Gallons	
<b>Additional Details For This Scope of Work</b> For example, list wells to be sampled, wells to be abandoned/repared, well pads/bolts/caps to replace, details of AFVR event, etc. -During the initial site visit, all wells were located and found to be in good condition. -The wells will be purged prior to sample collection and samples analyzed for BTEXNM, 8-OXY, 1,2-DCA and EDB. -Water supply wells will be sampled for BTEXNM, DCA (524.2) 8-Oxy's (8260B), and EDB (804.1). _____ _____ _____	
<b>Compliance With Annual Contractor Quality Assurance Plan (ACQAP)</b> <u>Yes</u> Laboratory as indicated in ACQAP? (Yes/No) If no, indicate laboratory information below. Name of Laboratory: _____ SCDHEC Certification Number: _____ Name of Laboratory Director: _____ <u>NA</u> Well Driller as indicated in ACQAP? (Yes/No) If no, indicate driller information below. Name of Well Driller: _____ SCLLR Certification Number: _____ <u>None</u> Other variations from ACQAP. Please describe below. _____ _____ _____	
<b>Attachments</b> 1. Attach a copy of the relevant portion of the USGS topographic map showing the site location. 2. Prepare a site base map. This map must be accurately scaled, but does not need to be surveyed. The map must include the following: North Arrow                      Proposed monitoring well locations Location of property lines      Legend with facility name and address, UST permit number, and bar scale Location of buildings            Streets or highways (indicate names and numbers) Previous soil sampling locations    Location of all present and former ASTs and USTs Previous monitoring well locations    Location of all potential receptors Proposed soil boring locations 3. Assessment Component Cost Agreement, SCDHEC Form D-3664	



**ASSESSMENT COMPONENT COST AGREEMENT  
SOUTH CAROLINA**

Department of Health and Environmental Control  
Underground Storage Tank Management Division  
State Underground Petroleum Environmental Response Bank Account  
**CONTRACT PO NUMBER 4600559329**

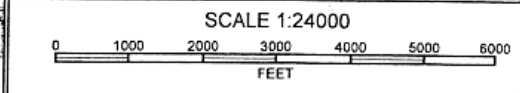
Facility Name: Steady Simmons

UST Permit #: 18856

Cost Agreement #: Proposal

ITEM	QUANTITY	UNIT	UNIT PRICE	TOTAL
<b>1. Plan*</b>				
A1. Site Specific Work Plan	1	each	\$1.00	\$1.00
B1. Tax Map		each	\$1.00	\$0.00
C1. QAPP Appendix B		each	\$1.00	\$0.00
2. A1. Receptor Survey		each	\$1.00	\$0.00
<b>4. Mob/Demob</b>				
B1. Personnel	2	each	\$1.00	\$2.00
<b>10. Groundwater Sample Collection / Gauge Depth to Water or Product (Each)</b>				
A1. Groundwater Purge	25	per well	\$36.50	\$912.50
B1. Air or Vapors		samples	\$1.00	\$0.00
C1. Water Supply	9	samples	\$18.00	\$162.00
D1. Groundwater No Purge or Duplicate	3	per well	\$27.50	\$82.50
E1. Gauge Well only		per well	\$1.00	\$0.00
F1. Sample Below Product		per well	\$1.00	\$0.00
G1. Pasive Diffusion Bag		each	\$20.00	\$0.00
H1. Field Blank	1	each	\$1.00	\$1.00
<b>17. Disposal* (gallons or tons)</b>				
AA. Disposal/Water	300	gallons	\$1.00	\$300.00
BB. Free Product		gallons	\$0.05	\$0.00
Note: Rate includes costs or rental of suitable container(s)				
23. D. Site Reconnaissance	1	each	\$1.00	\$1.00
<b>18. Miscellaneous</b>				
GW Contour Map		each	\$25.00	\$0.00
Isopleth Map		each	\$25.00	\$0.00
High-Strength Well Pad Replacement		each	\$75.00	\$0.00
Data Table		each	\$50.00	\$0.00
Low Flow Sampling		per well	\$55.00	\$0.00
<b>25. Well Repair</b>				
B1. Repair 2x2 MW Pad		each	\$50.00	\$0.00
C1. Repair 4x4 MW Pad		each	\$50.00	\$0.00
D1. Replace Well Vault		each	\$50.00	\$0.00
E. Replace well cover		each	\$25.00	\$0.00
F1. Replace well cover bolts		each	\$2.60	\$0.00
G. Replace locking well cap & lock		each	\$15.00	\$0.00
K1. Replace Missing Well ID Plate		each	\$10.00	\$0.00
<b>TOTAL</b>				<b>\$1,461.00</b>

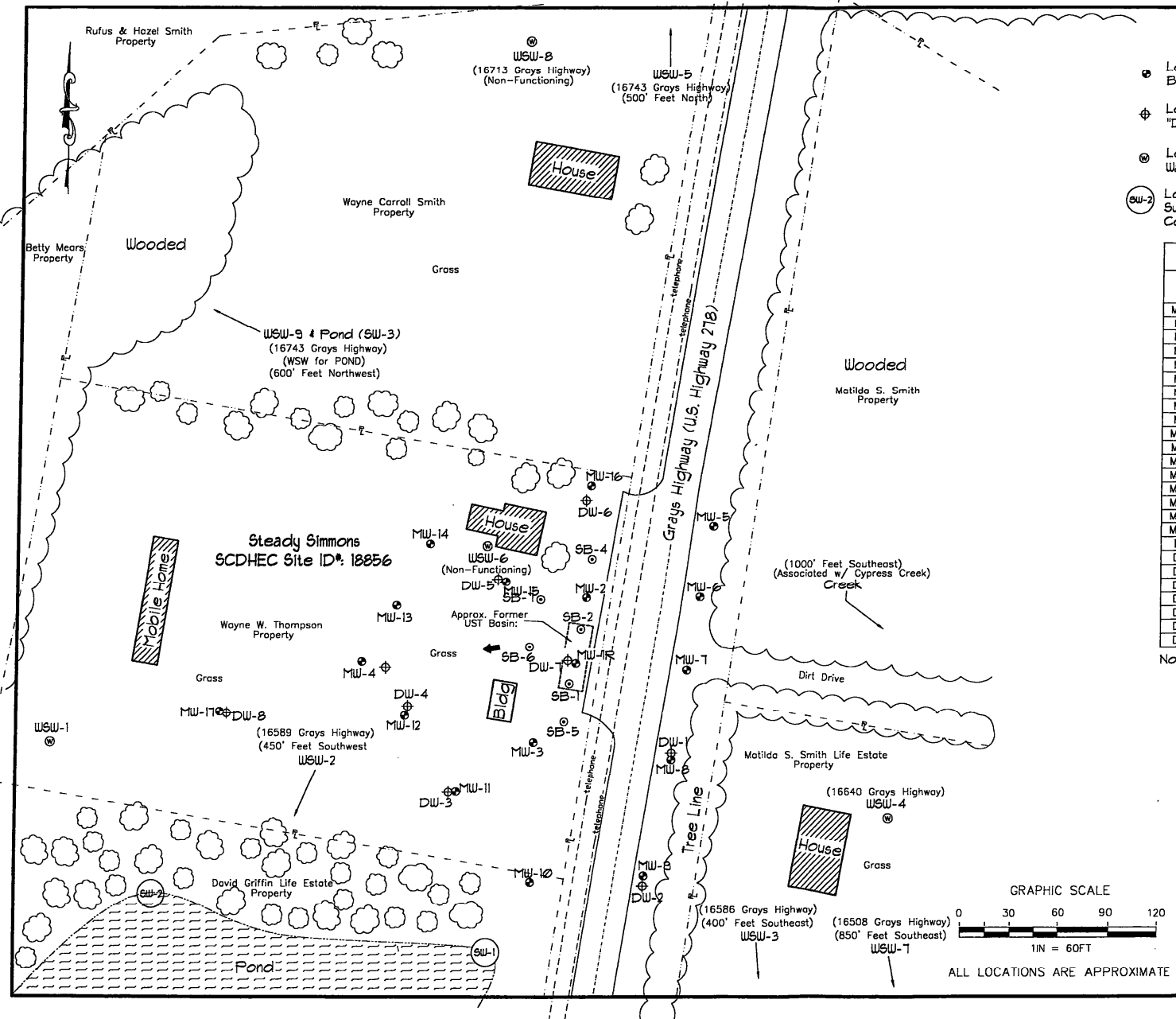
\*The appropriate mobilization cost can be added to complete these tasks, as necessary



Reference: Grays, South Carolina  
 USGS 7.5 Min. Quad  
 Countour Interval - 5 Feet

<p>Midlands          Environmental          Consultants, Inc.</p>	<p>Site Location</p>
<p>Steady Simmons          16661 Grays Highway, Early Branch, South Carolina          SCDHEC Site ID# 18856</p>	
<p>Figure 1</p>	<p>MECI 16-5552</p>





**Explanation:**

- ⊕ Location of Watertable Bracketing Monitoring Well
- ⊕ Location of Double Cased "Deep" Monitoring Well
- ⊙ Location of Water Supply Well
- ⊙ (SW-2) Location of Surface Water Sample Collection
- ↑ Estimated Groundwater Flow Direction
- Estimated Location of Removed Underground Storage Tanks
- - - Property Line
- Under Ground Telephone
- Pond Edge

Potentiometric Data				
Well #	Screened Interval(ft.)	Depth to Water(ft.)	Well Head Elevation	Groundwater Elevation
MW-1R	7-17	NM	69.69	NM
MW-2	7-17	NM	70.10	NM
MW-3	7-17	NM	68.59	NM
MW-4	7-17	NM	67.95	NM
MW-5	5-15	NM	71.78	NM
MW-6	5-15	NM	71.47	NM
MW-7	5-15	NM	71.27	NM
MW-8	5-15	NM	70.90	NM
MW-9	5-15	NM	70.70	NM
MW-10	5-15	NM	66.65	NM
MW-11	5-15	NM	67.16	NM
MW-12	5-15	NM	67.18	NM
MW-13	5-15	NM	68.50	NM
MW-14	5-15	NM	70.14	NM
MW-15	10-20	NM	70.01	NM
MW-16	10-20	NM	71.65	NM
MW-17	4-14	3.20	68.16	64.96
DW-1	35-40	NM	70.95	NM
DW-2	35-40	NM	70.89	NM
DW-3	35-40	NM	67.20	NM
DW-4	33-38	NM	67.51	NM
DW-5	33-38	NM	70.02	NM
DW-6	31-36	NM	71.41	NM
DW-7	31-36	NM	69.82	NM
DW-8	35-40	11.30	67.83	56.53

Notes: Depth to groundwater measured on March 10, 2016.

Site Datum Based on Assumed Spot Elevation.

NM = Not Measured

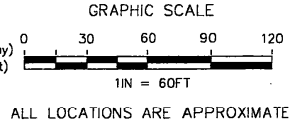
Drawing Based on MECI Field Notes, Tax Maps, RLS Survey of the Site by Jay S. Joshi dated December 7, 2011, and Figure 2 by Crawford Environmental Services.

**Potentiometric Data Site Map**

Steady Simmons  
16661 Grays Highway  
Early Branch, South Carolina  
SCDHEC Site ID 18856

**Midlands Environmental Consultants, Inc.**

JOB NO. 16-5552  
DATE November 15, 2018  
FIGURE 5





AUG 10 2017



**MR BRYAN SHANE PG  
MIDLANDS ENVIRONMENTAL CONSULTANTS  
PO BOX 854  
LEXINGTON SC 29071**

**Re: Notice to Proceed-Site Specific Work Plan Approval**

Groundwater Sampling Contract  
Solicitation # IFB-5400012906, PO#4600582306  
Steady Simmons, 16661 Grays Highway, Early Branch, SC  
UST Permit #18856; MECI CA #55292; Pace MW CA #55293; Pace WSW CA#55294  
Jasper County

Dear Mr. Shane:

In accordance with bid solicitation #IFB-5400007403 and the UST Management Division Quality Assurance Program Plan (QAPP), the Site-Specific Work Plan has been reviewed and approved. In accordance with the approved ACQAP, a status report of the project should be provided on a weekly basis via e-mail. If any quality assurance problems arise, you must contact me within 24 hours via phone or e-mail. In addition, a discussion of the problem(s) encountered, including quality assurance problems, the actions taken, and the results must be included in the final report submitted to the UST Management Division.

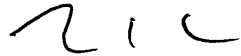
MECI will perform services at the site on behalf of the site's responsible party (RP); however, payment will be made from the SUPERB Account. The site's RP has no obligation for payment for this scope of work. Please coordinate access to the facility with the property owner. DHEC grants pre-approval for transportation of virgin petroleum impacted soil and groundwater from the referenced site to a permitted treatment facility. There can be no spillage or leakage in transport. All investigation-derived waste (IDW) must be properly contained and labeled prior to disposal. A copy of the disposal manifest and/or acceptance letter from the receiving facility that clearly designates the quantity received must be included with the final report. The SUPERB Account will not reimburse for transportation or treatment of soil and/or groundwater with concentrations below RBSLs.

**Please note, sampling should be conducted within 15 calendar days from the date of this letter. The final report is due within 3 weeks from the date the site is sampled. If the site is not sampled by the specified due date or the report is not received in the specified time period, a late fee may be imposed.** The final report should contain the requirements of Section III.2.15 of the bid solicitation. The final report should be submitted to John Bryant, the contract manager.

Page 2

If you have any site-specific or contract questions, please contact me at (803) 898-0606 or via e-mail at bryantjc@dhec.sc.gov.

Sincerely,

A handwritten signature in black ink, appearing to read 'JB'.

John Bryant, Hydrogeologist  
Corrective Action Section  
UST Management Division  
Bureau of Land & Waste Management

enc: Approved Cost Agreement (both CAs)

cc: John Bryant, Corrective Action Section, UST Management Division (w/o encs)  
Trey Carter, Pace Analytical Services, 9800 Kincey Ave, Ste 100, Huntersville, NC, 28078 (w/app. CA)  
Technical Files (w/encs)

**Approved Cost Agreement 55294**

Facility: 18856 STEADY SIMMONS

BRYANTJC

PO Number:

<u>Task / Description</u>	<u>Categories</u>	<u>Item Description</u>	<u>Qty / Pct</u>	<u>Unit Price</u>	<u>Amount</u>
18	MISCELLANEOUS				
		BTEX+NAPTH+MTBE+1,2 DCA (524.2)	12.0000	\$39.000	468.00
		EDB (504.1)	11.0000	\$18.000	198.00
		OXYGENATES+ETHANOL (8260B)	12.0000	\$13.000	156.00
		<b>Total Amount</b>			<b>822.00</b>

**Approved Cost Agreement 55293**

Facility: 18856 STEADY SIMMONS

BRYANTJC

PO Number:

<u>Task / Description</u>	<u>Categories</u>	<u>Item Description</u>	<u>Qty / Pct</u>	<u>Unit Price</u>	<u>Amount</u>
11 ANALYSES					
	GW GROUNDWATER	A2 BTEXNM+OXYGS+1,2-DCA+ETH-8260B	35.0000	\$19.000	665.00
		F1 EDB BY 8011	34.0000	\$18.000	612.00
			<b>Total Amount</b>		<b>1,277.00</b>

**Approved Cost Agreement 55292**

Facility: 18856 STEADY SIMMONS

BRYANTJC

PO Number:

<u>Task / Description</u>	<u>Categories</u>	<u>Item Description</u>	<u>Qty / Pct</u>	<u>Unit Price</u>	<u>Amount</u>
01 PLAN		A1 SITE SPECIFIC WORK PLAN	1.0000	\$1.000	1.00
04 MOB/DEMOB		B1 PERSONNEL	2.0000	\$1.000	2.00
10 SAMPLE COLLECTION		A1 GROUNDWATER (PURGE)	25.0000	\$36.500	912.50
		C1 WATER SUPPLY	9.0000	\$18.000	162.00
		D1 GROUNDWATER NO PURGE/DUPLICATE	3.0000	\$27.500	82.50
		H1 FIELD BLANK	1.0000	\$1.000	1.00
17 DISPOSAL		AA WASTEWATER	300.0000	\$1.000	300.00
23 EFR		D SITE RECONNAISSANCE	1.0000	\$1.000	1.00
<b>Total Amount</b>					<b>1,462.00</b>



October 23, 2017



Ms. Ashleigh Thrash, Hydrogeologist  
Corrective Action Section  
Underground Storage Tank Program  
Bureau of Land and Waste Management  
South Carolina Department of Health  
and Environmental Control  
2600 Bull Street  
Columbia, South Carolina 29201

Subject: Report of Groundwater Sampling  
Steady Simmons  
16661 Grays Highway  
Early Branch, South Carolina  
SCDHEC Site ID# 18856, CA # 55292  
MECI Project Number 17-6107  
Certified Site Rehabilitation Contractor UCC-0009



Dear Ms. Thrash,

Midlands Environmental Consultants Inc. (MECI) is pleased to submit the attached Report of Groundwater Sampling for the referenced site. This report describes site activities conducted at the site in general accordance with South Carolina Department of Health and Environmental Control's (SCDHEC) Quality Assurance Program Plan for the Underground Storage Tank Management Division (QAPP).

#### PROJECT INFORMATION

The subject site (Steady Simmons) is located at 16661 Grays Highway, Early Branch, Jasper County, South Carolina. The subject site formerly maintained one 1,000 gallon gasoline underground storage tank (UST), and one 550 gallon gasoline UST. The subject tanks were abandoned by removal from the ground in July of 2002. A release of petroleum product was reported to The South Carolina Department of Health and Environmental Control (SCDHEC) in September of 2002 and subsequently confirmed in October of 2002. The site is currently rated a Class 2BB.

The above information is based on reports and correspondence obtained from MECI field notes and SCDHEC files.

#### MONITORING WELL SAMPLING AND CHEMICAL ANALYSIS

On October 9, 2017, MECI personnel collected samples from twenty-three (23) monitoring wells, two (2) surface water locales and five (5) water supply wells at the subject site. During sampling activities, monitoring wells MW-15 and Dw-5 were found to be located beneath a newly placed mobile home and were unable to be sampled. Additionally, water supply wells WSW-6 and WSW-8

were found to be inoperable and were not sampled. Water supply wells WSW-5 and WSW-9 were unable to be sampled, as permission to sample was denied by the owners. Based on the request by SCDHEC personnel, all monitoring wells were to be purged prior to sample collection. Twenty-three (23) monitoring wells were purged prior to sample collection.

MECI personnel utilized an electronic water level indicator for water level measurements and an oil/water interface probe for free phase petroleum product level measurements. Purging was completed by bailing at least five well volumes of water from the well, until pH, conductivity, dissolved oxygen and turbidity stabilized, or all water was evacuated from the well, whichever occurred first. Sampling/purging was completed utilizing a prepackaged, clear, disposable polyethylene bailer and nylon rope. A new set of nitrile gloves were worn at each monitoring well, and at all time samples were handled. Field measurements of pH, conductivity, dissolved oxygen, and water temperature were obtained before well sampling process. MECI utilized a YSI Pro20 meter for DO (mg/L) and temperature readings (°C), YSI Pro1030 meter for pH and conductivity (uS) readings and a MicroTPI turbidimeter for turbidity readings (NTU). The attached Field Data Information Sheets presents the results of the field measurements obtained. The wells were sampled in accordance with the most recent revision of SCDHEC's Quality Assurance Program Plan for the Underground Storage Tank Management Division and the most recent revision MECI's Standard Operating Procedures.

Groundwater samples obtained were sent to Pace Analytical Services, Inc. of Huntersville, NC (SCDHEC Laboratory Certification #99006001) for analysis.

The following sampling matrix contains well development and requested analyses for each well:

Sample ID	Purge	No Purge	Gauge Only	Low-Flow Sampling	Not Sampled	Not Located	BTEX, Naphthalene, MTBE (EPA Method 8260-B)	EDB (EPA Method 8011)	1,2 DCA (EPA Method 8260-B)	8 Oxygenates (EPA Method 8260-B)	Total Lead (EPA Method 6010)	BTEX, Naphthalene, MTBE, 1,2 DCA (EPA Method 524.2)	EDB (EPA Method 504.1)
	Analyte Sampled												
MW-1R	X						X	X	X	X			
MW-2	X						X	X	X	X			
MW-3	X						X	X	X	X			
MW-4	X						X	X	X	X			
MW-5	X						X	X	X	X			
MW-6	X						X	X	X	X			
MW-7	X						X	X	X	X			
MW-8	X						X	X	X	X			
MW-9	X						X	X	X	X			
MW-10	X												
MW-11	X												
MW-12	X												
MW-13	X												

Notes: BTEX = Benzene, Toluene, Ethylbenzene, & Total Xylenes  
 MTBE = Methyl tertiary butyl ether  
 1,2 DCA = 1,2 Dichloroethane  
 EDB = Ethylene Dibromide




Sample ID	Purge	No Purge	Gauge Only	Low-Flow Sampling	Not Sampled	Not Located	Analyte Sampled							
							BTEX, Naphthalene, MTBE (EPA Method 8260-B)	EDB (EPA Method 8011)	1,2 DCA (EPA Method 8260-B)	8 Oxygenates (EPA Method 8260-B)	Total Lead (EPA Method 6010)	BTEX, Naphthalene, MTBE, 1,2 DCA (EPA Method 524.2)	EDB (EPA Method 504.1)	
MW-14	X						X	X	X	X				
MW-15						X								
MW-16	X						X	X	X	X				
MW-17	X						X	X	X	X				
DW-1	X						X	X	X	X				
DW-2	X						X	X	X	X				
DW-3	X						X	X	X	X				
DW-4	X						X	X	X	X				
DW-5						X	X	X	X	X				
DW-6	X						X	X	X	X				
DW-7	X						X	X	X	X				
DW-8	X						X	X	X	X				
SW-1		X					X	X	X	X				
SW-2		X					X	X	X	X				
SW-3					X		X	X	X	X				
DUP-1 (MW-16)							X	X	X	X				
DUP-2 (MW-2)							X	X	X	X				
Field Blank							X	X	X	X				
Trip Blank							X		X	X				
WSW-1										X		X	X	
WSW-2										X		X	X	
WSW-3										X		X	X	
WSW-4										X		X	X	
WSW-5					X									
WSW-6					X									
WSW-7										X		X	X	
WSW-8					X									
WSW-9					X									
DUP (WSW-1)										X		X	X	
Field Blank WSW										X		X	X	
Trip Blank WSW										X		X		

Notes: BTEX = Benzene, Toluene, Ethylbenzene, & Total Xylenes  
 MTBE=Methyl tertiary butyl ether  
 1,2 DCA = 1,2 Dichloroethane  
 EDB = Ethylene Dibromide


Purge water produced by the purging process was treated on-site utilizing a granular activated carbon unit. A total of 319.75 gallons of purge water was disposed of in this manner. A disposal manifest for the referenced purge water is attached at the end of this report.

Please feel free to contact us at 803-808-2043 if you have any immediate questions or comments.

Sincerely,  
**Midlands Environmental Consultants, Inc.**



Todd D. Elder  
Staff Hydrogeologist



Jeff M. Coleman  
Senior Scientist

Attachments:

**Contractor Checklist**

Item#	Item	Yes	No	N/A
1	Is Facility Name, Permit #, and address provided?	X		
2	Is UST Owner/Operator name, address, & phone number provided?			X
3	Is name, address, & phone number of current property owner provided?			X
4	Is the DHEC Certified UST Site Rehabilitation Contractor's Name, Address, telephone number, and certification number provided?	X		
5	Is the name, address, telephone number, and certification number of the well driller that installed borings/monitoring wells provided?			X
6	Is the name, address, telephone number, and certification number of the certified laboratory(ies) performing analytical analyses provided?	X		
7	Has the facility history been summarized?	X		
8	Has the regional geology and hydrogeology been described?			X
9	Are the receptor survey results provided as required?			X
10	Has current use of the site and adjacent land been described?			X
11	Has the site-specific geology and hydrogeology been described?			X
12	Has the primary soil type been described?			X
13	Have field screening results been described?			X
14	Has a description of the soil sample collection and preservation been detailed?			X
15	Has the field screening methodology and procedure been detailed?			X
16	Has the monitoring well installation and development dates been provided?			X
17	Has the method of well development been detailed?			X
18	Has justification been provided for the locations of the monitoring wells?			X
19	Have the monitoring wells been labeled in accordance with the UST QAPP guidelines?			X
20	Has the groundwater sampling methodology been detailed? See MECI SOP	X		
21	Have the groundwater sampling dates and groundwater measurements been provided? See attached Site Activity Summary Sheet	X		
22	Has the purging methodology been detailed? See MECI SOP	X		
23	Has the volume of water purged from each well been provided along with measurements to verify that purging is complete? See attached Field Data Information Sheets	X		
24	If free-product is present, has the thickness been provided? See attached Site Activity Summary Sheets	X		
25	Does the report include a brief discussion of the assessment done and the results?			X
26	Does the report include a brief discussion of the aquifer evaluation and results?			X
27	Does the report include a brief discussion of the fate & transport models used?			X

Item#	Item	Yes	No	N/A
28	Are the site-conceptual model tables included? (Tier 1 Risk Evaluation)			X
29	Have the exposure pathways been analyzed? (Tier 2 Risk Evaluation)			X
30	Have the SSTLs for each compound and pathway been calculated? (Tier 2 Risk Evaluation)			X
31	Have recommendations for further action been provided and explained?			X
32	Has the soil analytical data for the site been provided in tabular format? (Table 1)			X
33	Has the potentiometric data for the site been provided in tabular format? (Table 2)			X
34	Has the current and historical laboratory data been provided in tabular format?			X
35	Have the aquifer characteristics been provided and summarized on the appropriate form?			X
36	Have the Site conceptual model tables been included? (Tier 1 Risk Evaluation)			X
37	Has the topographic map been provided with all required elements? (Figure 1)	X		
38	Has the site base map been provided with all required elements? (Figure 2)	X		
39	Have the CoC site maps been provided? (Figure 3 & Figure 4)			X
40	Has the site potentiometric map been provided? (Figure 5)			X
41	Have the geologic cross-sections been provided? (Figure 6)			X
42	Have maps showing the predicted migration of the CoCs through time been provided? (Tier 2 Risk Evaluation)			X
43	Has the site survey been provided and include all necessary elements? (Appendix A)			X
44	Have the sampling logs, chain of custody forms, and the analytical data package been included with all required elements? (Appendix B)	X		
45	Is the laboratory performing the analyses properly certified?	X		
46	Has the tax map been included with all necessary elements? (Appendix C)			X
47	Have the soil boring/field screening logs been provided? (Appendix D)			X
48	Have the well completion logs and SCDHEC Form 1903 been provided? (Appendix E)			X
49	Have the aquifer evaluation forms, data, graphs, equations, etc. been provided? (Appendix F)			X
50	Have the disposal manifests been provided? See attached	X		
51	Has a copy of the local zoning regulations been provided? (Appendix H)			X
52	Has all fate and transport modeling been provided? (Appendix I)			X
53	Have copies of all access agreements obtained by the contractor been provided? (Appendix J)			X
54	Has a copy of this form been attached to the final report and are explanations for any missing or incomplete data been provided?	X		

**Site Activity Summary**

UST Permit #: 18856  
 Facility Name: Steady Simmons  
 County: Jasper  
 Field Personnel: J. Floyd, J. Phillips, C. Chartier

  
 Midlands Environmental Consultants, Inc.  
 231 Dooley Road, Lexington, SC 29013  
 (803) 808-2043 fax: 808-2048

Sample ID	Sampled?	Date	Time	Screened interval	Depth to Product (ft)	Depth to Water (ft)	Product Thickness (ft)	Initial Dissolved Oxygen (mg/l)	# Gals. Purged	Comments
MW-1R	Y	10/9/17	13:10	7-17	***	4.15	***	2.28	10.50	Odor
MW-2	Y	10/9/17	12:26	7-17	***	5.31	***	2.54	9.50	Odor; Duplicated as DUP-2
MW-3	Y	10/9/17	12:40	7-17	***	3.94	***	1.66	10.75	No Odor
MW-4	Y	10/9/17	10:08	7-17	***	3.69	***	1.08	11.00	No Odor
MW-5	Y	10/9/17	12:00	5-15	***	6.45	***	4.17	7.00	No Odor
MW-6	Y	10/9/17	11:47	5-15	***	6.46	***	3.62	7.00	No Odor
MW-7	Y	10/9/17	11:34	5-15	***	6.40	***	3.91	7.00	No Odor
MW-8	Y	10/9/17	11:47	5-15	***	6.14	***	1.05	7.25	No Odor
MW-9	Y	10/9/17	11:28	5-15	***	5.18	***	2.76	8.00	No Odor
MW-10	Y	10/9/17	11:13	5-15	***	2.11	***	1.51	10.50	No Odor
MW-11	Y	10/9/17	10:45	5-15	***	0.72	***	1.20	11.75	No Odor
MW-12	Y	10/9/17	10:31	5-15	***	2.83	***	3.01	10.00	No Odor
MW-13	Y	10/9/17	10:18	5-15	***	4.10	***	3.44	9.00	No Odor
MW-14	Y	10/9/17	12:26	5-15	***	5.52	***	2.60	7.75	No Odor
MW-15	N	10/9/17	NS	10-20	***	NS	***	NS	NS	NS=Not Sampled; Located beneath new mobile home
									127.00	TOTAL GALLONS PURGED

**Site Activity Summary**

**UST Permit #:** 18856  
**Facility Name:** Steady Simmons  
**County:** Jasper  
**Field Personnel:** J. Floyd, J. Phillips, C. Chartier



Sample ID	Sampled?	Date	Time	Screened Interval	Depth to Product (ft)	Depth to Water (ft)	Product Thickness (ft)	Initial Dissolved Oxygen (mg/l)	# Gals. Purged	Comments
MW-16	Y	10/9/17	12:13	10-20	***	6.27	***	3.18	11.25	No Odor; Duplicated as DUP-1
MW-17	Y	10/9/17	9:55	4-14	***	4.75	***	3.94	7.50	No Odor
DW-1	Y	10/9/17	11:41	35-40	***	6.93	***	4.65	27.00	No Odor
DW-2	Y	10/9/17	11:15	35-40	***	7.09	***	5.36	27.00	No Odor
DW-3	Y	10/9/17	11:00	35-40	***	3.38	***	5.26	30.00	No Odor
DW-4	Y	10/9/17	10:30	33-38	***	14.54	***	5.30	19.50	No Odor
DW-5	N	10/9/17	NS	33-38	***	NS	***	NS	NS	NS=Not Sampled-Located beneath new mobile home
DW-6	Y	10/9/17	12:14	31-36	***	6.64	***	4.53	24.00	No Odor
DW-7	Y	10/9/17	12:55	31-36	***	5.20	***	2.02	25.00	No Odor
DW-8	Y	10/9/17	10:05	35-40	***	13.88	***	2.36	21.50	No Odor
SW-1	Y	10/9/17	13:05	***	***	***	***	***	***	Collected from pond, See Figure
SW-2	Y	10/9/17	13:10	***	***	***	***	***	***	Collected from pond, 16743 Grays Highway
SW-3	N	10/9/17	NS	***	***	***	***	***	***	Could not access
DUP-1	Y	10/9/17	12:13	***	***	***	***	***	***	Duplicate sampled of MW-16
DUP-2	Y	10/9/17	12:26	***	***	***	***	***	***	Duplicate sample fo MW-2
									192.75	<b>TOTAL GALLONS PURGED</b>

**Site Activity Summary**

**UST Permit #:** 18856  
**Facility Name:** Steady Simmons  
**County:** Jasper  
**Field Personnel:** J. Floyd, J. Phillips, C. Chartier



Sample ID	Sampled?	Date	Time	Screened Interval	Depth to Product (ft)	Depth to Water (ft)	Product Thickness (ft)	Initial Dissolved Oxygen (mg/l)	# Gals. Purged	Comments
Field Blank	Y	10/9/17	13:15	***	***	***	***	***	***	Field Blank
Trip Blank	Y	10/9/17	13:17	***	***	***	***	***	***	Trip Blank
WSW-1	Y	10/9/17	13:30	***	***	***	***	***	***	Sample Taken From Spigot on Well, White Trailer on Onsite
WSW-2	Y	10/9/17	13:35	***	***	***	***	***	***	Sample Taken From Spigot on Front of House, 16589 Grays Highway, Property owner request results
WSW-3	Y	10/9/17	13:40	***	***	***	***	***	***	Sample Taken From Spigot in Front Yard, 16586 Grays Highway
WSW-4	Y	10/9/17	13:40	***	***	***	***	***	***	Sample Taken From Spigot in Front Yard, 16640 Grays Highway
WSW-5	N	10/9/17	NS	***	***	***	***	***	***	Access denied
WSW-6	N	10/9/17	NS	***	***	***	***	***	***	Not Operational, Onsite
WSW-7	Y	10/9/17	13:30	***	***	***	***	***	***	Sample collected from spigot behind shed, 16506 Grays Highway
WSW-8	N	10/9/17	NS	***	***	***	***	***	***	Not Operational/No Resident, 16713 Gray Highway
WSW-9	N	10/9/17	NS	***	***	***	***	***	***	Access denied
DUP WSW	Y	10/9/17	13:30	***	***	***	***	***	***	Duplicate Sample of WSW-1
Field Blank WSW	Y	10/9/17	13:47	***	***	***	***	***	***	Field Blank WSW
Trip Blank WSW	Y	10/9/17	13:50	***	***	***	***	***	***	Trip Blank WSW
									0.00	<b>TOTAL GALLONS PURGED</b>



## Monitoring Well Purge And Sampling Data

Field Personnel: W, SP, CL  
 Sampling Date(s): 10/9/17  
 Sampling Case#: 1

Job Name: Shady Simons  
 Job Number: 17-6107

Calibration Data for:  
 Calibration Successful?  Yes  No (Please Circle)  
 pH:  Yes  No  
 Conductivity:  Yes  No  
 Dissolved Oxygen:  Yes  No  
 Turbidity:  Yes  No  
 Conductivity Calibrated Every 3 Months by QA Manager

Well No.	Purge Volume	Sample Time	pH(l)	cond(l)	Temp. (°C)	DO (mg/l)	Turbidity (NTU)	Depth to (feet):			Well Depth (feet)	Water Height (feet)	Gallons Purged		Notes
								product	Initial H <sub>2</sub> O	Final H <sub>2</sub> O			*calc.	actual	
MW-1K	Initial	13:00	5.66	79.2	27.1	2.256	16.47								
	1st	13:02	5.66	78.6	26.7	2.20	20.48	4.15	7-17	12.85	2.09	10.50	gallons	odor	
	2nd	13:07	5.60	78.1	26.2	2.15	20.22								
	3rd	13:06	5.57	74.3	25.3	2.10	18.18								
	4th	13:09	5.55	73.9	24.7	2.05	20.34								
	5th	13:10	5.54	73.5	24.1	2.01	119.7								
Sampling															
MW-2	Initial	12:16	5.59	60.7	26.2	2.54	30.27								
	1st	12:16	5.52	58.3	25.4	2.47	31.19	5.0	7-17	11.69	1.90	9.50	gallons	odor	
	2nd	12:20	5.42	56.9	25.3	2.46	70.33								
	3rd	12:22	5.46	56.2	24.9	2.36	121.4								
	4th	12:24	5.45	55.5	24.1	2.30	201.4								
	5th	12:26	5.44	55.1	22.9	2.26	127.2								
Sampling															
MW-3	Initial	12:28	5.15	43.6	20.2	1.65	22.43								
	1st	12:32	5.15	43.2	25.5	1.60	47.60	2.94	7-17	13.06	2.12	10.75	gallons	No odor	
	2nd	12:34	5.12	45.3	25.1	1.26	72.99								
	3rd	12:36	5.09	44.7	24.7	1.20	65.70								
	4th	12:36	5.07	42.2	24.2	1.18	100.3								
	5th	12:40	5.06	42.9	23.7	1.15	115.3								
Sampling															
MW-4	Initial	10:58	6.07	95.6	25.6	1.08	20.17								
	1st	10:00	6.02	94.2	25.1	1.20	53.81	2.69	7-17	13.31	2.16	11.0	gallons	No odor	
	2nd	10:02	6.00	93.8	24.6	1.31	70.22								
	3rd	10:04	5.97	93.1	23.9	1.46	89.18								
	4th	10:06	5.96	92.7	23.1	1.50	114.6								
	5th	10:08	5.95	90.9	22.8	1.53	20.37								
Sampling															

\* (Depth of Well) - (Depth to Water) = Water Height  
 \*\* One Well Volume x 5 = Gallons Purged (calculated)  
 One Well Volume = 0.047 for 1" wells, 0.163 for 2" wells, or 0.66 for 4" wells, 1.469 for 6" wells

Casing	Gallons
1"	0.047
2"	0.163
4"	0.653
6"	1.469

Sampling Case#	P/Conductance #	D/S #	Turbidity
Case #1	15H101448	12G102878	201301183
Case #2	15E101481	14H103098	201301174
Case #3	10K101885	08B101407	201510251





## Monitoring Well Purge And Sampling Data

Field Personnel: W, DP, CL  
 Sampling Date(s): 10/9/17  
 Sampling Case#: 1

Job Name: Steady Simmons  
 Job Number: 17-6107

Calibration Data for:  
 Calibration Successful? Yes or No (Please Circle)  
 pH: Yes  No   
 Conductivity: Yes  No   
 Dissolved Oxygen: Yes  No   
 Turbidity: Conductivity Calibrated Every 3 Months by QA Manager

Well No.	Purge Volume	Sample Time	pH(l)	cond(l)	Temp. (°C)	DO (mg/l)	Turbidity (NTU)	Depth to Water:			Well Depth (feet)	Water Height (feet)	Gallons Purged		Notes
								product	Initial H <sub>2</sub> O	Final H <sub>2</sub> O			calc.	actual	
MW-5	Initial	11:50	4.78	57.5	22.5	4.17	32.84	6.45	5.15	8.55	7.00	7.00	gallon	no odor	
	1st	11:52	4.80	66.3	22.1	4.16	46.77								
	2nd	11:54	4.84	54.6	22.9	4.05	52.26								
	3rd	11:56	4.85	54.1	22.5	4.03	121.60								
	4th	11:58	4.87	52.9	22.1	3.99	100.7								
	5th	12:00	4.98	52.1	22.9	3.90	80.11								
Sampling															
MW-6	Initial	11:32	5.07	56.4	22.4	3.02	18.43	6.40	5.15	8.54	7.00	7.00	gallon	no odor	
	1st	11:39	5.02	55.2	22.1	3.50	30.91								
	2nd	11:41	5.00	51.7	22.7	3.41	36.22								
	3rd	11:43	4.99	50.9	22.1	3.37	30.31								
	4th	11:45	4.97	50.2	22.5	3.30	104.6								
	5th	11:47	4.95	49.8	21.7	3.12	80.12								
Sampling															
MW-7	Initial	11:22	5.14	48.4	22.9	3.91	21.45	6.40	5.15	8.16	7.00	7.00	gallons	no odor	
	1st	11:26	5.16	47.2	22.2	3.24	40.47								
	2nd	11:28	5.08	45.3	22.2	2.95	31.60								
	3rd	11:30	5.05	44.1	22.3	3.60	120.3								
	4th	11:32	5.04	43.9	22.9	3.52	101.4								
	5th	11:34	5.04	43.4	21.8	2.50	30.90								
Sampling															
MW-8	Initial	11:37	5.09	44.8	23.9	1.05	12.94	6.14	5.15	8.66	7.25	7.25	gallons	no odor	
	1st	11:39	5.01	46.8	22.5	1.10	26.45								
	2nd	11:41	4.97	49.4	22.7	1.12	37.40								
	3rd	11:43	4.95	50.2	22.1	1.15	49.87								
	4th	11:45	4.91	47.6	21.8	1.20	62.86								
	5th	11:47	4.92	45.2	21.7	1.22	80.25								
Sampling															

\* (Depth of Well) - (Depth to Water + Water Height)      \*\* One Well Volume x 5 = Gallons Purged (calculated)  
 One Well Volume = 0.047 for 1" wells \* 0.163 for 2" wells, or \* 0.86 for 4" wells, 1.489 for 6" wells

Casing	Gallons
1"	0.047
2"	0.163
4"	0.853
6"	1.489

Sampling Case	Ph/Conductivity (µS)	DO (M)	Turbidity
Case #1	15H101448	12G102878	201301183
Case #2	15E101481	14H103098	201301174
Case #3	10K 101896	08B101407	201510251



## Monitoring Well Purge And Sampling Data

Field Personnel: W, DP, CL  
 Sampling Date(s): 10/9/17  
 Sampling Case#: 1

Job Name: Steady Simmons  
 Job Number: 17-6107

Calibration Data for:  
 Calibration Successful:  Yes or No (Please Circle)  
 pH:  Yes  No  
 Conductivity:  Yes  No  
 Dissolved Oxygen:  Yes  No  
 Turbidity: Conductivity Calibrated Every 3 Months by QA Manager

Well No.	Purge Volume	Sample Time	pH()	cond(l)	Temp. (°C)	DO (mg/l)	Turbidity (NTU)	Depth to (feet):			Well Depth (feet)	Water Height (feet)	Gallons Purged		Notes
								product	Initial H <sub>2</sub> O	final H <sub>2</sub> O			**calc.	actual	
mw-9	Initial	11:16	5.34	90.8	24.3	2.96	2.17								
	1st	11:20	5.36	88.2	24.1	2.76	37.48	5.18	5.15	9.82	1.60	8.0	gallons	no odor	
	2nd	11:22	5.23	89.5	23.8	2.58	52.11								
	3rd	11:24	5.25	86.9	23.2	2.51	100.23								
	4th	11:26	5.24	86.2	22.9	2.43	81.11								
	5th	11:28	5.20	87.3	22.5	2.32	79.45								
Sampling											8.00				
mw-10	Initial	11:03	5.40	54.1	25.3	1.91	20.66								
	1st	11:05	5.37	52.2	24.7	1.47	24.86	2.11	5.15	12.89	2.10	30.5	gallons	No odor	
	2nd	11:07	5.48	52.5	24.1	1.40	40.21								
	3rd	11:09	5.45	52.1	23.6	1.35	70.66								
	4th	11:11	5.42	52.7	22.9	1.31	83.14								
	5th	11:13	5.41	52.2	22.2	1.26	50.22								
Sampling											10.50				
mw-11	Initial	10:35	5.41	117.3	24.3	1.20	20.03								
	1st	10:37	5.32	114.8	24.1	1.32	50.47	.72	5.15	14.28	2.32	11.75	gallons	sulfur odor	
	2nd	10:39	5.31	113.9	23.3	1.21	120.6								
	3rd	10:41	5.28	112.2	23.2	1.24	121.4								
	4th	10:43	5.25	112.7	23.1	1.16	91.34								
	5th	10:45	5.24	112.5	22.1	1.40	71.02								
Sampling											17.63				
mw-12	Initial	10:21	6.01	95.0	24.4	2.01	20.12								
	1st	10:23	5.97	74.3	24.1	2.75	49.27	2.83	5.15	12.17	1.98	10.0	gallons	No odor	
	2nd	10:25	5.95	73.9	23.5	2.90	71.72								
	3rd	10:27	5.94	73.2	22.9	2.68	101.4								
	4th	10:29	5.90	72.6	22.2	2.65	90.66								
	5th	10:31	5.91	71.8	21.7	2.07	80.14								
Sampling											9.91				

\*\* (Depth of Well) - (Depth to Water + Water Height)      \*\*\* One Well Volume x 5 = Gallons Purged (calculated)  
 One Well Volume = 0.047 for 1" wells \* 0.163 for 2" wells, or \* 0.66 for 4" wells, 1.489 for 6" wells

Casing	Gallons
1"	0.047
2"	0.163
4"	0.653
6"	1.489

Sampling Date	pH/Conductivity SW	DO SW	Turbidity
Case #1	15H101448	12G102878	201301183
Case #2	18E101481	14H103098	201301174
Case #3	10K101895	08B101407	201510251



## Monitoring Well Purge And Sampling Data

Field Personnel: W, DP, CL  
 Sampling Date(s): 10/9/17  
 Sampling Case#: 1

Job Name: Steady Simmons  
 Job Number: 17-6107

Calibration Data for:  
 Calibration Successful? Yes or No (Please Circle)  
 pH: Yes  No   
 Conductivity: Yes  No   
 Dissolved Oxygen: Yes  No   
 Turbidity: Conductivity Calibrated Every 3 Months by QA Manager

Well No.	Purge Volume	Sample Time	pH(l)	cond(l)	Temp. (°C)	DO (mg/l)	Turbidity (NTU)	Depth to (feet)			Well Depth (feet)	Water Height (feet)	Gallons Purged		Notes
								product	initial H <sub>2</sub> O	final H <sub>2</sub> O			**calc.	actual	
mu-12	Initial	10:08	5.96	177.1	25.9	3.44	11.47	4.10	5.15	10.9		1.77	9.0	No odor	
	1st	10:10	5.90	174.6	25.2	3.37	24.32								
	2nd	10:12	5.82	173.9	24.7	3.20	40.99								
	3rd	10:14	5.42	175.1	24.1	3.21	26.16								
	4th	10:16	5.80	178.4	23.4	3.19	138.4								
	5th	10:18	5.81	172.1	23.2	3.12	91.21								
Sampling												8.88			
mu-14	Initial	12:16	5.39	148.2	24.6	2.60	12.17	5.52	5.15	9.48		1.54	7.75	No odor	
	1st	12:18	5.35	145.9	24.2	2.51	12.37								
	2nd	12:20	5.31	144.9	23.7	2.45	80.21								
	3rd	12:22	5.29	144.3	23.5	2.37	26.45								
	4th	12:24	5.25	142.7	23.1	2.30	100.2								
	5th	12:26	5.20	142.1	22.7	2.28	92.3								
Sampling												7.72			
mu-15	Initial									10.20					
	1st														
	2nd														
	3rd														
	4th														
	5th														
Sampling															
<i>Inaccessible - beneath new mobile home. N/S</i>															
mu-16	Initial	12:03	5.59	39.6	23.9	3.18	20.18	12:09 6.28	10.20	13.73		2.20	11.25	Drip No odor	
	1st	12:05	5.53	39.1	23.2	3.03	30.82								
	2nd	12:07	5.50	37.5	22.9	2.97	25.15								
	3rd	12:09	5.46	37.2	22.3	2.90	114.3								
	4th	12:11	5.49	36.8	21.9	2.88	211.4								
	5th	12:13	5.50	25.9	21.2	2.81	102.6								
Sampling												11.8			

\*\* (Depth of Well) - (Depth to Water + Water Height)      \*\*\* One Well Volume x 5 = Gallons Purged (calculated)  
 One Well Volume = 0.047 for 1" wells \* 1.183 for 2" wells, or \* 1.88 for 4" wells, 1.489 for 6" wells

Casing	Gallons
1"	0.047
2"	0.163
4"	0.653
6"	1.489

Sampling Case#	Photoresistance SW	DO SW	Turbidity
Case #1	15H101448	12G102878	201301183
Case #2	15E101481	14H103098	201301174
Case #3	10K101895	08B101407	201510251



## Monitoring Well Purge And Sampling Data

Field Personnel: W, DP, CL  
 Sampling Date(s): 10/9/17  
 Sampling Case#: 1

Job Name: Steady Simons  
 Job Number: 17-6107

Calibration Data for:  
 Calibration Successful? Yes or No (Please Circle)  
 pH: Yes  No   
 Conductivity: Yes  No   
 Dissolved Oxygen: Yes  No   
 Turbidity: Conductivity Calibrated Every 3 Months by QA Manager

Well No.	Purge Volume	Sample Time	pH(l)	cond(l)	Temp. (C)	DO (mg/l)	Turbidity (NTU)	Depth to (feet):			Well Depth (feet)	Water Height (feet)	Gallons Purged		Notes
								product	Initial H <sub>2</sub> O	final H <sub>2</sub> O			**calc.	actual	
MW-17	Initial	9:45	6.05	69.0	25.1	5.94	12.51								
	1st	9:47	6.00	68.5	24.7	3.81	29.14	4.75	4-14	9.23	1.50	7.5	gallons	w/ odor	
	2nd	9:49	6.58	66.3	24.1	3.72	46.18								
	3rd	9:51	6.50	62.1	23.6	2.65	137.9								
	4th	9:53	6.52	61.5	23.1	3.60	115.2								
	5th	9:55	6.51	61.1	22.4	3.34	95.88								
Sampling															
OW-1	Initial	11:16	5.44	65.1	24.3	4.45	9.13								
	1st	11:21	5.40	62.3	24.7	4.51	20.43	6.93	35-40	33.07	5.39	27.0	gallons	no odor	
	2nd	11:26	5.36	61.7	24.1	4.49	27.26								
	3rd	11:31	5.33	60.8	23.9	4.40	52.21								
	4th	11:36	5.36	60.2	22.4	4.77	53.98								
	5th	11:41	5.34	60.1	21.8	4.10	70.66								
Sampling															
OW-2	Initial	10:50	6.07	55.9	24.8	5.36	16.84								
	1st	10:55	5.96	55.2	24.1	5.29	29.96	7.09	35-40	32.91	5.36	29.0	gallons	no odor	
	2nd	11:00	5.92	54.7	23.7	5.20	40.22								
	3rd	11:05	5.90	54.3	23.3	5.15	48.16								
	4th	11:10	5.89	53.9	22.8	5.11	52.62								
	5th	11:15	5.87	52.8	22.2	5.09	59.54								
Sampling															
OW-3	Initial	10:35	5.97	57.6	24.4	5.26	20.11								
	1st	10:40	5.88	55.3	23.9	5.12	35.96	3.38	35-40	36.62	5.96	30.0	gallons	no odor	
	2nd	10:45	5.81	52.7	23.2	5.05	87.24								
	3rd	10:50	5.80	52.1	22.9	4.96	98.78								
	4th	10:55	5.81	51.9	22.2	4.96	85.21								
	5th	11:00	5.82	51.6	22.5	4.81	93.16								
Sampling															

\* (Depth of Well) - (Depth to Water = Water Height)      \*\* One Well Volume x 5 = Gallons Purged (calculated)  
 One Well Volume = 0.047 for 1" wells \* x .163 for 2" wells, or \* x .66 for 4" wells, 1.469 for 6" wells

Casing	Gallons
1"	0.047
2"	0.163
4"	0.653
6"	1.469

Sampling Case#	At/Conductivity SW	DO SW	Turbidity
Case #1	15H101448	12G102878	201301183
Case #2	15E101481	14H103098	201301174
Case #3	10K101896	08B101407	201510251



## Monitoring Well Purge And Sampling Data

Field Personnel: W, S, C  
 Sampling Date(s): 10/9/17  
 Sampling Case#: 1

Job Name: Steady Simmons  
 Job Number: 17-6107

Calibration Data for:  
 Calibration Successful? Yes or No (Please Circle)  
 pH: Yes No  
 Conductivity: Yes No  
 Dissolved Oxygen: Yes No  
 Turbidity: Conductivity Calibrated Every 3 Months by QA Manager

Well No.	Purge Volume	Sample Time	pH(I)	cond(I)	Temp. (°C)	DO (mg/l)	Turbidity (NTU)	Depth to (feet):			Well Depth (feet)	Water Height (feet)	Gallons Purged		Notes
								product	Initial H <sub>2</sub> O	final H <sub>2</sub> O			calc.	actual	
DW-4	Initial	10:12	6.53	112.4	23.1	5.30	24.17								
	1st	10:15	6.43	10.8	22.7	5.21	24.45	14.54	33-38	23.46	3.82	14.5	gallons	no odor	
	2nd	10:19	6.43	109.7	22.4	5.17	27.81								
	3rd	10:23	6.41	109.1	22.1	5.10	146.7								
	4th	10:27	6.40	108.3	21.7	5.08	90.22								
	5th	10:30	6.39	107.6	21.5	5.05	30.34								
Sampling															
DW-5	Initial														
	1st			not able to sample					33-38						
	2nd			Have trailer on top											
	3rd														
	4th														
	5th			at well											
Sampling															
DW-6	Initial	11:54	5.53	47.7	24.1	4.53	23.52								
	1st	11:58	5.50	48.7	23.5	4.47	26.18	6.44	21-36	24.36	4.78	24.0	gallons	no odor	
	2nd	12:02	5.47	41.7	23.1	4.40	47.21								
	3rd	12:06	5.44	41.1	22.7	4.35	2.16								
	4th	12:10	5.41	40.7	22.1	4.31	20.11								
	5th	12:14	5.40	38.6	21.9	4.28	53.84								
Sampling															
DW-7	Initial	12:30	6.12	50.2	26.5	2.02	9.37								
	1st	12:35	6.08	52.6	25.1	1.97	15.17	5.20	31-36	30.8	5.02	25.0	gallons	no odor	
	2nd	12:40	6.08	51.9	24.2	1.90	20.16								
	3rd	12:45	6.05	51.2	23.4	1.88	23.88								
	4th	12:50	6.04	50.5	23.2	1.85	40.39								
	5th	12:55	6.04	49.6	22.7	1.84	20.11								
Sampling															

\* (Depth of Well) - (Depth to Water + Water Height)  
 One Well Volume = x.047 for 1" wells - x.183 for 2" wells, or \* x.86 for 4" wells, 1.489 for 6" wells

Sample Case#	PhConductivity #1	DO #1	Turbidity
Case #1	15H101448	12G102878	201301183
Case #2	15E101481	14H103098	201301174
Case #3	10K 101895	08B101407	201510251

Casing	Gallons
1"	0.047
2"	0.183
4"	0.653
6"	1.489



## Monitoring Well Purge And Sampling Data

Field Personnel: W, DP, CL  
 Sampling Date(s): 10/9/17  
 Sampling Case#: 1

Job Name: Steady Siemens  
 Job Number: 17-6107

Calibration Data for:  
 Calibration Successful?  Yes  No (Please Circle)  
 pH:  Yes  No  
 Conductivity:  Yes  No  
 Dissolved Oxygen:  Yes  No  
 Turbidity:  Yes  No  
 Conductivity Calibrated Every 3 Months by QA Manager

Well No.	Purge Volume	Sample Time	pH(l)	cond(l)	Temp. (°C)	DO (mg/l)	Turbidity (NTU)	Depth to (feet):			Well Depth (feet)	Water Height (feet)	Gallons Purged		Notes	
								product	Initial H <sub>2</sub> O	Final H <sub>2</sub> O			**calc.	actual		
DN-8	Initial	9:46	7.47	126.7	22.3	2.36	27.16									
	1st	9:49	7.02	124.2	22.7	2.15	50.39	13.86	35.70	26.12	4.35	21.5	9 gallons	NO odor		
	2nd	9:53	7.37	123.1	22.4	2.10	25.19									
	3rd	9:57	7.35	120.4	22.1	2.05	40.36									
	4th	10:01	7.34	120.2	21.6	2.01	82.91									
	5th	10:05	7.32	119.5	21.4	1.99	74.82									
Sampling																
SV-1	Initial		13.05													
	1st															
	2nd															
SV-2	Initial		13.10													
	1st															
	2nd															
SV-3	Initial		No access													
	1st															
	2nd															
DN-1	Initial		MV-1 @ 12:13													
	1st															
	2nd															
DN-2	Initial		MV-2 @ 12:26													
	1st															
	2nd															
FB	Initial		13.15													
	1st															
	2nd															
TB	Initial		13.17													
	1st															
	2nd															

\* (Depth of Well) - (Depth to Water + Water Height)      \*\* One Well Volume x 0 = Gallons Purged (calculated)  
 One Well Volume = x.047 for 1" wells \* x.163 for 2" wells, or \* x.66 for 4" wells, 1.489 for 6" wells

Casing	Gallons
1"	0.047
2"	0.163
4"	0.653
6"	1.489

Sampling Case#	pH/Conductivity SW	DO SW	Turbidity
Case #1	15H101448	12G102878	201301183
Case #2	16E101481	14H103098	201301174
Case #3	10K 101895	08B101407	201510251



## Monitoring Well Purge And Sampling Data

Field Personnel: W, DP, CL  
 Sampling Date(s): 10/9/17  
 Sampling Case#: 1

Job Name: Steady Simons  
 Job Number: 17-6107

Calibration Data for:  
 Calibration Successful? Yes or No (Please Circle)  
 pH: Yes  No   
 Conductivity: Yes  No   
 Dissolved Oxygen: Yes  No   
 Turbidity: Conductivity Calibrated Every 3 Months by QA Manager

Well No.	Purge Volume	Sample Time	pH(l)	cond(l)	Temp. (°C)	DO (mg/l)	Turbidity (NTU)	Depth to (feet):			Well Depth (feet)	Water Height (feet)	Gallons Purged		Notes
								product	Initial H <sub>2</sub> O	Final H <sub>2</sub> O			**calc.	actual	
USV-1	Initial	on well house			13:30										
	1st														
USV-2	2nd	Spigot on house			13:35										
	3rd														
USV-3	4th	Spigot on well house			13:40										
	6th														
USV-4	Sampling	Spigot behind house			13:40										
	Initial	No permission			Access Denied										
USV-5	1st														
	2nd	Inactive													
USV-6	3rd														
	4th	Spigot in front of house			13:50										
USV-8	6th														
	Sampling	Inactive													
USV-9	Initial	No permission			Access Denied										
	1st														
DWP	2nd														
	3rd														
FB	4th	WV-1 @			13:30										
	6th														
TR	Sampling														
	Initial														
FB	1st				13:47										
	2nd														
TR	3rd														
	4th														
TR	6th				13:50										
	Sampling														

\* (Depth of Well) - (Depth to Water = Water Height)      \*\* One Well Volume x 5 = Gallons Purged (calculated)  
 One Well Volume = 0.047 for 1" wells, 0.163 for 2" wells, or 0.66 for 4" wells, 1.409 for 6" wells

Casing	Gallons
1"	0.047
2"	0.163
4"	0.663
6"	1.409

Sampling Case#	pH/Conductivity SW	DO SW	Turbidity
Case #1	15H101448	12G102878	201301183
Case #2	16E101481	14H103098	201301174
Case #3	10K101895	08B101407	201510251



### CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 1 of 3

<b>Section A</b> Required Client Information:		<b>Section B</b> Required Project Information:		<b>Section C</b> Invoice Information:		REGULATORY AGENCY	
Company: <u>SCIFIC - UST</u>		Report To: <u>J. Boyant - UST</u>		Attention:		2195111	
Address: <u>3600 Bull Street</u>		Copy To:		Company Name:		REGULATORY AGENCY	
<u>Columbia SC 29202</u>		Purchase Order No: <u>4160422413</u>		Address:		<input type="checkbox"/> NPDES <input type="checkbox"/> GROUND WATER <input type="checkbox"/> DRINKING WATER <input checked="" type="checkbox"/> UST <input type="checkbox"/> RCRA <input type="checkbox"/> OTHER _____	
Email To: <u>ERVANO@SCDHEC.gov</u>		Project Name: <u>Shady Simmons</u>		Face Quote Reference:		Site Location	
Phone: <u>803.781.6666</u> Fax: <u>803.781.0477</u>		Project Number: <u>457-562228 (A-55293)</u>		Price Project Manager: <u>T. Carter</u>		STATE: <u>SC</u> <u>Jayree</u>	
Requested Date DEBITAT: <u>12/28/2017</u>				Face Profile #:			

ITEM #	SAMPLE ID (A-Z 0-9 / -)	Matrix Code MATRIX / CODE	Matrix Code DW WT Water Waste Water WW Product P Soil/Solid SL Oil OL Wipe WP Air AR Tissue TS Other OT	COLLECTED		SAMPLE TEMP AT COLLECTION	Preservatives										Analysis Test	Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.						
				COMPOSITE START	COMPOSITE END/GRAB		Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2SO3	Methanol	Other	As	Cd					Cu	Fe	Mn	Ni	Pb	S
DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME					
1	m11-16					10/9/17	13:10											X	X	X	X	X			cdo	
2	m11-2						12:26																			cdo
3	m11-3						12:40																			NE udr
4	m11-4						10:00																			NE udr
5	m11-5						12:00																			NE udr
6	m11-6						11:42																			NE udr
7	m11-7						11:34																			NE udr
8	m11-8						11:47																			NE udr
9	m11-9						11:28																			NE udr
10	m11-10						11:13																			NE udr
11	m11-11						10:45																			Sulf udr
12	m11-12					10/9/17	10:31											X	X	X	X	X				NE udr

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	<i>[Signature]</i>	10/9/17					

2

<b>SAMPLER NAME AND SIGNATURE</b>	
PRINT Name of SAMPLER: <u>Jordan Floyd</u>	DATE Signed (MM/DD/YY): <u>10/9/17</u>
SIGNATURE OF SAMPLER: <i>[Signature]</i>	

Temp in °C	Received on Ice (Y/N)	Chain of Custody (Y/N)	Sealed (Y/N)	Sample Intact (Y/N)

\*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any outstanding bill when 30 days.





### CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 2 of 3  
**2195112**

<b>Section A</b> Required Client Information:		<b>Section B</b> Required Project Information:		<b>Section C</b> Invoice Information:		<b>REGULATORY AGENCY</b>	
Company: <u>SDHFC - UST</u>		Report To: <u>J. Bryant - UST</u>		Attention:		<input type="checkbox"/> NPDES <input type="checkbox"/> GROUND WATER <input type="checkbox"/> DRINKING WATER	
Address: <u>2600 Ball Street</u>		Copy To:		Company Name:		<input checked="" type="checkbox"/> UST <input type="checkbox"/> RCRA <input type="checkbox"/> OTHER _____	
Address: <u>Columbia SC 29202</u>		Purchase Order No: <u>460622513</u>		Address:		Site Location	
Email To: <u>J. Bryant @ SDHFC</u>		Project Name: <u>Staley Simon</u>		Face Quote Reference:		STATE: <u>SC</u> <u>Jasper</u>	
Phone: <u>803-292-0877</u>		Project Number: <u>1111-50-003 CA-55297</u>		Face Project Manager: <u>T. Carter</u>			
Requested Due Date/TAT:				Face Profile #:			

ITEM #	SAMPLE ID (A-Z, 0-9 / ) Sample IDs MUST BE UNIQUE	Matrix Codes MATRIX CODE Drinking Water DW Water WT Waste Water WYW Product P Soil/Solid SL Oil OL Wipe WP Air AR Tissue TS Other OT	Matrix Code (see matrix codes to left)	COLLECTED				SAMPLE TEMP AT COLLECTION	Requested Analysis Filtered (Y/N)												Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.							
				COMPOSITE START	COMPOSITE END/GRAB	# OF CONTAINERS	Preservatives																						
							DATE		TIME	DATE	TIME	Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2SO4	Methanol	Other	Analysis Test									
																							Y/N	Y/N	Y/N	Y/N	Y/N	Y/N	Y/N
1	MW-13	WT	G			10/9/17	10:18	6		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				
2	MW-14	WT	G			10/9/17	12:26	6		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
3	MW-15																												
4	MW-16	WT	G			10/9/17	12:13	6		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		No Sample	
5	MW-17						9:55	7		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		No order	
6	DW-1						11:40	7		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		No order	
7	DW-2						11:45	7		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		No order	
8	DW-3						11:00	7		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		No order	
9	DW-4	WT	G			10/9/17	10:30	6		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		No order	
10	DW-5									X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		No order sample	
11	DW-6	WT	G			10/9/17	12:14	6		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		No order	
12	DW-7	WT	G			10/9/17	12:53	6		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		No order	

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	<i>J. Bryant</i>	10/9/17					

2

<b>SAMPLER NAME AND SIGNATURE</b>		Temp in °C	Received on for (Y/N)	Chain of Custody Signature (Y/N)	Signature Matrix (Y/N)
PRINT Name of SAMPLER:	<u>Jordan Floyd</u>				
SIGNATURE of SAMPLER:	<i>Jordan Floyd</i>	DATE Signed (MM/DD/YY):	<u>10/9/17</u>		

\*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for all invoices not paid within 30 days.



### CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 3 of 3  
**2195117**

<b>Section A</b> Required Client Information:		<b>Section B</b> Required Project Information:		<b>Section C</b> Invoice Information:	
Company: <u>SIOAEL UST</u>		Report To: <u>J. Bayart UST</u>		Attention:	
Address: <u>2600 Bull Street</u>		Copy To:		Company Name:	
City/State/Zip: <u>Colton, CA 92307</u>		Purchase Order No.: <u>4600172513</u>		Address:	
Email To: <u>Bayart@ust.com</u>		Project Name: <u>St. James</u>		Face Quote Reference:	
Phone: <u>951-261-8200</u>		Project Number: <u>1157-90900-CA 5212</u>		Face Project Manager: <u>T. Co. +</u>	
Requested Due Date/TAT:				Face Profile #:	
				REGULATORY AGENCY	
				<input type="checkbox"/> NPDES <input type="checkbox"/> GROUND WATER <input type="checkbox"/> DRINKING WATER <input checked="" type="checkbox"/> UST <input type="checkbox"/> RCRA <input type="checkbox"/> OTHER	
				Site Location	
				STATE: <u>SC</u> <u>Jasper</u>	

ITEM #	SAMPLE ID (A-Z, 0-9, /)	Matrix Code MATRIX / CODE	MATERIAL CODE (see inside codes to left)	COLLECTED				SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives							Analysis Test	Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)	Pace Project No / Lab I.D.	
				COMPOSITE START		COMPOSITE END/GRAB				Unpreserved	H <sub>2</sub> SO <sub>4</sub>	HNO <sub>3</sub>	HCl	NaOH	Na <sub>2</sub> SO <sub>4</sub>	Methanol					Other
				DATE	TIME	DATE	TIME														
1	DW-8	DW	WTG	10/9/12	10:05			6		X											
2	SU-1	WW	WTG	10/9/12	13:05			6		X											
3	SU-2	P	WTG	10/9/12	13:10			6		X											
4	SU-2	SL	WTG																		
5	Duplicate 1	CL	WTG	10/9/12	12:13			6		X											
6	Duplicate 2	VP	WTG		12:16			6		X											
7	Field Blank	AR	WTG		13:15			6		X											
8	Trip Blank	TS	WTG	10/9/12	13:17			12		X											
9		OT																			
10																					
11																					
12																					

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	<i>[Signature]</i>	10/9/12					

<b>SAMPLER NAME AND SIGNATURE</b>		Temp in °C	Received on Box (Y/N)	Closely Stored (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER:	<u>Jordan Floyd</u>				
SIGNATURE of SAMPLER:	<i>[Signature]</i>				
		DATE Signed (MM/DD/YY):	<u>10/9/12</u>		

\*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for payments not received on time.



### CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: | of |

<b>Section A</b> Required Client Information:		<b>Section B</b> Required Project Information:		<b>Section C</b> Invoice Information:		2195118	
Company: <u>SDAFC-UST</u>		Report To: <u>J. Boyan UST</u>		Attention:		REGULATORY AGENCY	
Address: <u>2600 Bull Street</u> <u>Admission SL 10202</u>		Copy To:		Company Name:		<input type="checkbox"/> NPDES <input type="checkbox"/> GROUND WATER <input type="checkbox"/> DRINKING WATER <input checked="" type="checkbox"/> UST <input type="checkbox"/> RCRA <input type="checkbox"/> OTHER	
Email To: <u>Boyant@sdafc.com</u>		Purchase Order No: <u>4100422512</u>		Address:		Site Location	
Phone: <u>925 594 6000</u>		Project Name: <u>Storage Silos</u>		Price Quote Reference:		STATE: <u>CA</u> <u>Jasper</u>	
Requested Date/DAT: <u>10/29/17</u>		Project Number: <u>16T-15856 CA-5524</u>		Price Project Manager: <u>T. Carter</u>			
				Price Profile #:			

ITEM #	SAMPLE ID (A-Z, 0-9, /)	Matrix Codes MATRIX / CODE		COLLECTED				SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives								Analysis Test	Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.																		
		Drinking Water	Water	Waste Water	Product	Soil/Solid	Oil			Wipe	Air	Tissue	Other	Unpreserved	H <sub>2</sub> SO <sub>4</sub>	HNO <sub>3</sub>	HCl					NaOH	Na <sub>2</sub> SO <sub>4</sub>	Methanol	Other														
		OW	WT	WW	P	SL	CL	WP	AR	TS	OT	DATE	TIME	DATE	TIME	COMPOSITE START	COMPOSITE END/GRAH																						
1	W-01-1	OW										10/9/17	13:20																										
2	W-01-2	OW										10/9/17	17:30																										
3	W-01-3	OW										10/9/17	15:40																										
4	W-01-4	OW										10/9/17	17:40																										
5	W-01-5																																						
6	W-01-6																																						
7	W-01-7	OW										10/9/17	18:00																										
8	W-01-8																																						
9	W-01-9																																						
10	Field Blank	OW										10/9/17	12:30																										
11	Field Blank	OW										10/9/17	13:47																										
12	Time Blank	OW										10/9/17	13:47																										

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
		10/9/17					

2

SAMPLER NAME AND SIGNATURE	
PRINT Name of SAMPLER:	Jordan Floyd
SIGNATURE of SAMPLER:	[Signature]
DATE Signed (MM/DD/YY):	10/9/17

Temp in °C	Received on Ice (Y/N)	Cleanly Collected (Y/N)	Samples Intact (Y/N)

\*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.



October 23, 2017

Re: Treatment of Purge Water  
Steady Simmons  
Early Branch, South Carolina  
SCDHEC Site ID Number 18856  
MECI Project Number 17-6107

To Whom It May Concern;

Midlands Environmental Consultants, Inc. is providing the following letter as certification that treatment of the referenced purge water complied with the conditions of "Proposed Conditions for Use of Portable Activated Carbon Units for the Treatment of Small Volumes of Petroleum Hydrocarbon Contaminated Groundwater", as described in the following:

Applicability:

Groundwater treated was obtained as a result development of wells and sampling.

Conditions:

1. The purge/bail water from all wells is mixed before usage of the Activated Carbon Unit.
2. No free-product was detected in any of the purge water drums.
3. Analytical results of from well sampling show average concentrations of petroleum hydrocarbon constituents less than 5000 parts per billion (ppb) Benzene and less than 20,000 ppb total BTEX.
4. The existing carbon pack will be replaced/reactivated every 5,000 gallons.
5. Record of usage is maintained by Contractor.
6. Any and all recommendations and conditions issued by the Manufacturer have been adhered to.
7. Any and all recommendations and conditions (even on a site by site basis) issued by the SCDHEC must be adhered to.

All purge waters were treated on-site using an up-flow treatment drum loaded with 80 pounds of activated carbon. Carbon will be loaded to a maximum of 3 pounds of total organic compounds or 5,000 gallons of development/purge water, whichever occurs first.

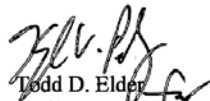
October 9, 2017

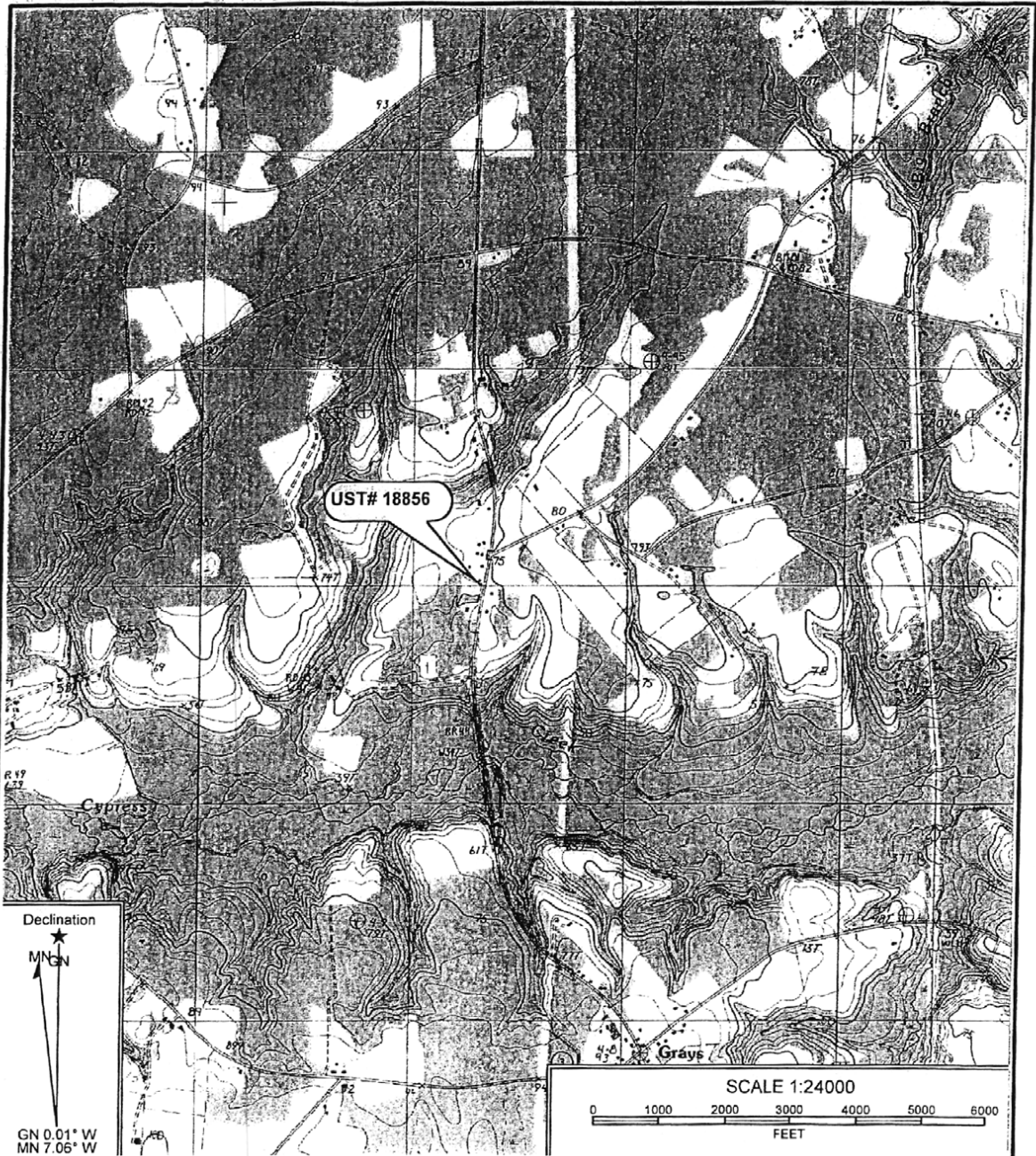
**A total of 319.75 gallons were treated on October 9, 2017 at the referenced site.**

Midlands Environmental also tracks cumulative organic compounds adsorbed on the activated carbon to ensure the capacity of carbon mass is not over-charged. This data is available upon request.

Should you have any questions or comments, please contact the undersigned.

Sincerely,  
Midlands Environmental Consultants, Inc.

  
Todd D. Elder  
Staff Hydrogeologist

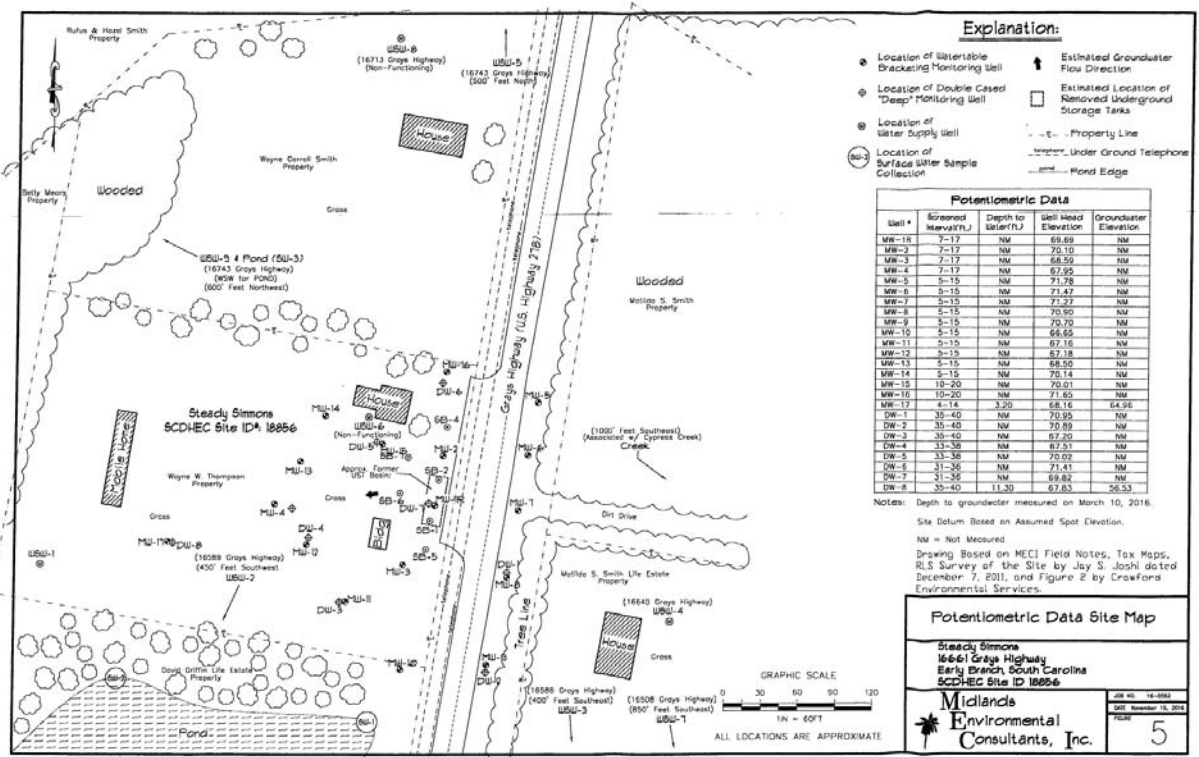


Declination  
 GN 0.01° W  
 MN 7.06° W

SCALE 1:24000  
 0 1000 2000 3000 4000 5000 6000  
 FEET

Reference: Grays, South Carolina  
 USGS 7.5 Min. Quad  
 Contour Interval - 5 Feet

<p>Midlands          Environmental          Consultants, Inc.</p>	<p>Site Location</p>
<p>Steady Simmons          16661 Grays Highway, Early Branch, South Carolina          SCDHEC Site ID# 18856</p>	
<p>Figure 1</p>	<p>MECI 16-5552</p>



October 17, 2017



Ashleigh Thrash  
SCHDEC  
2600 Bull St  
Columbia, SC 29201

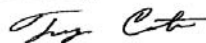
RE: Project: STEADY SIMMONS 18856/55293  
Pace Project No.: 92358506

Dear Ashleigh Thrash:

Enclosed are the analytical results for sample(s) received by the laboratory on October 10, 2017. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Trey Carter  
treycarter@pacelabs.com  
(704)875-9092  
Project Manager

Enclosures



**REPORT OF LABORATORY ANALYSIS**

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### CERTIFICATIONS

Project: STEADY SIMMONS 18856/55293  
Pace Project No.: 92358506

---

**Charlotte Certification IDs**

9800 Kincey Ave. Ste 100, Huntersville, NC 28078  
Louisiana/NELAP Certification # LA170028  
North Carolina Drinking Water Certification #: 37706  
North Carolina Field Services Certification #: 5342  
North Carolina Wastewater Certification #: 12

South Carolina Certification #: 99006001  
Florida/NELAP Certification #: E87627  
Kentucky UST Certification #: 84  
Virginia/VELAP Certification #: 460221

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### REPORT OF LABORATORY ANALYSIS

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**SAMPLE SUMMARY**

Project: STEADY SIMMONS 18858/55293  
Pace Project No.: 92358506

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92358506001	MW-1R	Water	10/09/17 13:10	10/10/17 06:07
92358506002	MW-2	Water	10/09/17 12:26	10/10/17 06:07
92358506003	MW-3	Water	10/09/17 12:40	10/10/17 06:07
92358506004	MW-4	Water	10/09/17 10:08	10/10/17 06:07
92358506005	MW-5	Water	10/09/17 12:00	10/10/17 06:07
92358506006	MW-6	Water	10/09/17 11:47	10/10/17 06:07
92358506007	MW-7	Water	10/09/17 11:34	10/10/17 06:07
92358506008	MW-8	Water	10/09/17 11:47	10/10/17 06:07
92358506009	MW-9	Water	10/09/17 11:28	10/10/17 06:07
92358506010	MW-10	Water	10/09/17 11:13	10/10/17 06:07
92358506011	MW-11	Water	10/09/17 10:45	10/10/17 06:07
92358506012	MW-12	Water	10/09/17 10:31	10/10/17 06:07
92358506013	MW-13	Water	10/09/17 10:18	10/10/17 06:07
92358506014	MW-14	Water	10/09/17 12:26	10/10/17 06:07
92358506015	MW-16	Water	10/09/17 12:13	10/10/17 06:07
92358506016	MW-17	Water	10/09/17 09:55	10/10/17 06:07
92358506017	DW-1	Water	10/09/17 11:41	10/10/17 06:07
92358506018	DW-2	Water	10/09/17 11:15	10/10/17 06:07
92358506019	DW-3	Water	10/09/17 11:00	10/10/17 06:07
92358506020	DW-4	Water	10/09/17 10:30	10/10/17 06:07
92358506021	DW-6	Water	10/09/17 12:14	10/10/17 06:07
92358506022	DW-7	Water	10/09/17 12:55	10/10/17 06:07
92358506023	DW-8	Water	10/09/17 10:05	10/10/17 06:07
92358506024	DUPLICATE 1	Water	10/09/17 12:13	10/10/17 06:07
92358506025	DUPLICATE 2	Water	10/09/17 12:26	10/10/17 06:07
92358506026	FIELD BLANK	Water	10/09/17 13:15	10/10/17 06:07
92358506027	TRIP BLANK	Water	10/09/17 13:17	10/10/17 06:07
92358506028	SW-1	Water	10/09/17 13:05	10/10/17 06:07
92358506029	SW-2	Water	10/09/17 13:10	10/10/17 06:07

**REPORT OF LABORATORY ANALYSIS**

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**SAMPLE ANALYTE COUNT**

Project: STEADY SIMMONS 18856/55293  
Pace Project No.: 92358506

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92358506001	MW-1R	EPA 8011	SEM	2	PASI-C
		EPA 8260	ZDO	20	PASI-C
92358506002	MW-2	EPA 8011	SEM	2	PASI-C
		EPA 8260	ZDO	20	PASI-C
92358506003	MW-3	EPA 8011	SEM	2	PASI-C
		EPA 8260	ZDO	20	PASI-C
92358506004	MW-4	EPA 8011	SEM	2	PASI-C
		EPA 8260	ZDO	20	PASI-C
92358506005	MW-5	EPA 8011	SEM	2	PASI-C
		EPA 8260	ZDO	20	PASI-C
92358506006	MW-6	EPA 8011	SEM	2	PASI-C
		EPA 8260	ZDO	20	PASI-C
92358506007	MW-7	EPA 8011	SEM	2	PASI-C
		EPA 8260	ZDO	20	PASI-C
92358506008	MW-8	EPA 8011	SEM	2	PASI-C
		EPA 8260	ZDO	20	PASI-C
92358506009	MW-9	EPA 8011	SEM	2	PASI-C
		EPA 8260	ZDO	20	PASI-C
92358506010	MW-10	EPA 8011	SEM	2	PASI-C
		EPA 8260	ZDO	20	PASI-C
92358506011	MW-11	EPA 8011	SEM	2	PASI-C
		EPA 8260	ZDO	20	PASI-C
92358506012	MW-12	EPA 8011	SEM	2	PASI-C
		EPA 8260	ZDO	20	PASI-C
92358506013	MW-13	EPA 8011	SEM	2	PASI-C
		EPA 8260	ZDO	20	PASI-C
92358506014	MW-14	EPA 8011	SEM	2	PASI-C
		EPA 8260	ZDO	20	PASI-C
92358506015	MW-16	EPA 8011	SEM	2	PASI-C
		EPA 8260	ZDO	20	PASI-C
92358506016	MW-17	EPA 8011	SEM	2	PASI-C
		EPA 8260	ZDO	20	PASI-C
92358506017	DW-1	EPA 8011	SEM	2	PASI-C
		EPA 8260	ZDO	20	PASI-C
92358506018	DW-2	EPA 8011	SEM	2	PASI-C
		EPA 8260	SWB	20	PASI-C
92358506019	DW-3	EPA 8011	SEM	2	PASI-C

**REPORT OF LABORATORY ANALYSIS**

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**SAMPLE ANALYTE COUNT**

Project: STEADY SIMMONS 18856/55293  
 Pace Project No.: 92358506

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92358506020	DW-4	EPA 8260	SWB	20	PASI-C
		EPA 8011	SEM	2	PASI-C
92358506021	DW-6	EPA 8260	SWB	20	PASI-C
		EPA 8011	SEM	2	PASI-C
92358506022	DW-7	EPA 8260	SWB	20	PASI-C
		EPA 8011	SEM	2	PASI-C
92358506023	DW-8	EPA 8260	SWB	20	PASI-C
		EPA 8011	SEM	2	PASI-C
92358506024	DUPLICATE 1	EPA 8260	SWB	20	PASI-C
		EPA 8011	SEM	2	PASI-C
92358506025	DUPLICATE 2	EPA 8260	SWB	20	PASI-C
		EPA 8011	SEM	2	PASI-C
92358506026	FIELD BLANK	EPA 8260	SWB	20	PASI-C
		EPA 8011	SEM	2	PASI-C
92358506027	TRIP BLANK	EPA 8260	ZDO	20	PASI-C
		EPA 8011	SEM	2	PASI-C
92358506028	SW-1	EPA 8260	ZDO	20	PASI-C
		EPA 8011	SEM	2	PASI-C
92358506029	SW-2	EPA 8260	ZDO	20	PASI-C
		EPA 8011	SEM	2	PASI-C

**REPORT OF LABORATORY ANALYSIS**

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### SUMMARY OF DETECTION

Project: STEADY SIMMONS 18856/55293  
Pace Project No.: 92358506

Lab Sample ID	Client Sample ID					
Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
<b>92358506001</b>	<b>MW-1R</b>					
EPA 8260	Ethylbenzene	32.0	ug/L	5.0	10/13/17 20:12	
EPA 8260	Naphthalene	52.4	ug/L	5.0	10/13/17 20:12	
EPA 8260	Toluene	1.8J	ug/L	5.0	10/13/17 20:12	
EPA 8260	Xylene (Total)	90.1	ug/L	5.0	10/13/17 20:12	
EPA 8260	m&p-Xylene	65.3	ug/L	10.0	10/13/17 20:12	
EPA 8260	o-Xylene	24.9	ug/L	5.0	10/13/17 20:12	
<b>92358506002</b>	<b>MW-2</b>					
EPA 8011	1,2-Dibromoethane (EDB)	1.5	ug/L	0.097	10/12/17 10:54	
EPA 8260	Benzene	346	ug/L	100	10/13/17 20:46	
EPA 8260	Ethylbenzene	658	ug/L	100	10/13/17 20:46	
EPA 8260	Naphthalene	238	ug/L	100	10/13/17 20:46	
EPA 8260	Toluene	2990	ug/L	100	10/13/17 20:46	M1
EPA 8260	Xylene (Total)	3880	ug/L	100	10/13/17 20:46	
EPA 8260	m&p-Xylene	2440	ug/L	200	10/13/17 20:46	
EPA 8260	o-Xylene	1440	ug/L	100	10/13/17 20:46	
<b>92358506008</b>	<b>MW-8</b>					
EPA 8260	Toluene	6.6	ug/L	5.0	10/13/17 08:55	
<b>92358506011</b>	<b>MW-11</b>					
EPA 8260	Methyl-tert-butyl ether	4.1J	ug/L	5.0	10/13/17 10:05	
<b>92358506012</b>	<b>MW-12</b>					
EPA 8260	Benzene	146	ug/L	5.0	10/13/17 19:55	
EPA 8260	Methyl-tert-butyl ether	15.8	ug/L	5.0	10/13/17 19:55	
EPA 8260	Naphthalene	13.8	ug/L	5.0	10/13/17 19:55	
<b>92358506025</b>	<b>DUPLICATE 2</b>					
EPA 8011	1,2-Dibromoethane (EDB)	1.2	ug/L	0.039	10/16/17 21:22	
EPA 8260	Benzene	233	ug/L	50.0	10/17/17 09:25	
EPA 8260	Ethylbenzene	447	ug/L	50.0	10/17/17 09:25	
EPA 8260	Naphthalene	193	ug/L	50.0	10/17/17 09:25	
EPA 8260	Toluene	1930	ug/L	50.0	10/17/17 09:25	
EPA 8260	Xylene (Total)	3120	ug/L	50.0	10/17/17 09:25	
EPA 8260	m&p-Xylene	1920	ug/L	100	10/17/17 09:25	
EPA 8260	o-Xylene	1200	ug/L	50.0	10/17/17 09:25	

### REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: STEADY SIMMONS 18858/55293  
Pace Project No.: 92358506

---

**Method:** EPA 8011  
**Description:** 8011 GCS EDB and DBCP  
**Client:** SCDHEC  
**Date:** October 17, 2017

### General Information:

28 samples were analyzed for EPA 8011. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

### Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

### Sample Preparation:

The samples were prepared in accordance with EPA 8011 with any exceptions noted below.

### Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

### Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

### Surrogates:

All surrogates were within QC limits with any exceptions noted below.

QC Batch: 382487

S0: Surrogate recovery outside laboratory control limits.

- MS (Lab ID: 2119624)
- 1-Chloro-2-bromopropane (S)

### Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

### Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

QC Batch: 382016

R1: RPD value was outside control limits.

- LCSD (Lab ID: 2116925)
- 1,2-Dibromoethane (EDB)

### Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 382487

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 92358724003

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 2119624)
- 1,2-Dibromoethane (EDB)
- MSD (Lab ID: 2119625)

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: STEADY SIMMONS 18856/55293  
Pace Project No.: 92358506

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**Method:** EPA 8011  
**Description:** 8011 GCS EDB and DBCP  
**Client:** SCDHEC  
**Date:** October 17, 2017

QC Batch: 382487

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 92358724003

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.  
• 1,2-Dibromoethane (EDB)

**Duplicate Sample:**

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

**Additional Comments:**

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: STEADY SIMMONS 18856/55293  
Pace Project No.: 92358506

---

**Method:** EPA 8260  
**Description:** 8260 MSV Low Level SC  
**Client:** SCDHEC  
**Date:** October 17, 2017

**General Information:**

2 samples were analyzed for EPA 8260. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

**Hold Time:**

The samples were analyzed within the method required hold times with any exceptions noted below.

**Initial Calibrations (including MS Tune as applicable):**

All criteria were within method requirements with any exceptions noted below.

**Continuing Calibration:**

All criteria were within method requirements with any exceptions noted below.

**Internal Standards:**

All internal standards were within QC limits with any exceptions noted below.

**Surrogates:**

All surrogates were within QC limits with any exceptions noted below.

**Method Blank:**

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

**Laboratory Control Spike:**

All laboratory control spike compounds were within QC limits with any exceptions noted below.

**Matrix Spikes:**

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 382422

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 92358506028

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 2119448)
- Ethanol
- tert-Butyl Formate

P5: The EPA or method required sample preservation degrades this compound, therefore acceptable recoveries may not be achieved in sample matrix spikes.

- MS (Lab ID: 2119448)
- tert-Butyl Formate

**Duplicate Sample:**

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

**Additional Comments:**

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## PROJECT NARRATIVE

Project: STEADY SIMMONS 18856/55293  
Pace Project No.: 92358506

---

**Method:** EPA 8260  
**Description:** 8260 MSV  
**Client:** SCDHEC  
**Date:** October 17, 2017

### General Information:

27 samples were analyzed for EPA 8260. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

### Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

### Initial Calibrations (Including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

### Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

### Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

### Surrogates:

All surrogates were within QC limits with any exceptions noted below.

### Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

### Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

### Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 382622

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 92358747006

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 2120402)
- Ethanol
- Toluene

P5: The EPA or method required sample preservation degrades this compound, therefore acceptable recoveries may not be achieved in sample matrix spikes.

- MS (Lab ID: 2120402)
- tert-Butyl Formate

QC Batch: 382159

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 92358186012

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 2117840)
- Benzene

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## PROJECT NARRATIVE

Project: STEADY SIMMONS 18856/55293  
Pace Project No.: 92358506

---

**Method:** EPA 8260  
**Description:** 8260 MSV  
**Client:** SCDHEC  
**Date:** October 17, 2017

### QC Batch: 382159

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 92358186012

- M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
- tert-Butyl Formate
  - MSD (Lab ID: 2117841)
    - Benzene
    - tert-Butyl Formate

P5: The EPA or method required sample preservation degrades this compound, therefore acceptable recoveries may not be achieved in sample matrix spikes.

- MS (Lab ID: 2117840)
  - tert-Butyl Formate
- MSD (Lab ID: 2117841)
  - tert-Butyl Formate

### QC Batch: 382188

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 92358287005

- M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
- MS (Lab ID: 2118737)
    - Ethanol

### QC Batch: 382386

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 92358506002

- M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
- MS (Lab ID: 2119181)
    - 3,3-Dimethyl-1-Butanol
    - Toluene
    - tert-Amyl Alcohol
    - tert-Butyl Formate
  - MSD (Lab ID: 2119182)
    - tert-Butyl Formate

P5: The EPA or method required sample preservation degrades this compound, therefore acceptable recoveries may not be achieved in sample matrix spikes.

- MS (Lab ID: 2119181)
  - tert-Butyl Formate
- MSD (Lab ID: 2119182)
  - tert-Butyl Formate

### QC Batch: 382623

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 92358690004

- M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
- MS (Lab ID: 2120406)
    - tert-Butyl Alcohol
    - tert-Butyl Formate
  - MSD (Lab ID: 2120407)
    - tert-Butyl Alcohol
    - tert-Butyl Formate

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## PROJECT NARRATIVE

Project: STEADY SIMMONS 18856/55293  
Pace Project No.: 92358506

---

**Method:** EPA 8260  
**Description:** 8260 MSV  
**Client:** SCDHEC  
**Date:** October 17, 2017

QC Batch: 382623

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 92358690004

P5: The EPA or method required sample preservation degrades this compound, therefore acceptable recoveries may not be achieved in sample matrix spikes.

- MS (Lab ID: 2120406)
  - tert-Butyl Formate
- MSD (Lab ID: 2120407)
  - tert-Butyl Formate

R1: RPD value was outside control limits.

- MSD (Lab ID: 2120407)
  - Ethanol

**Duplicate Sample:**

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

**Additional Comments:**

This data package has been reviewed for quality and completeness and is approved for release.

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### ANALYTICAL RESULTS

Project: STEADY SIMMONS 18858/55293  
Pace Project No.: 92358506

Sample: MW-1R		Lab ID: 92358506001		Collected: 10/09/17 13:10		Received: 10/10/17 06:07		Matrix: Water	
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>8011 GCS EDB and DBCP</b>		Analytical Method: EPA 8011 Preparation Method: EPA 8011							
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	0.019	1	10/11/17 12:50	10/12/17 00:21	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	92	%	60-140		1	10/11/17 12:50	10/12/17 00:21	301-79-56	
<b>8260 MSV</b>		Analytical Method: EPA 8260							
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		10/13/17 20:12	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		10/13/17 20:12	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		10/13/17 20:12	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		10/13/17 20:12	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		10/13/17 20:12	75-85-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		10/13/17 20:12	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		10/13/17 20:12	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		10/13/17 20:12	108-20-3	
Ethanol	ND	ug/L	200	131	1		10/13/17 20:12	64-17-5	
Ethylbenzene	32.0	ug/L	5.0	1.6	1		10/13/17 20:12	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		10/13/17 20:12	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		10/13/17 20:12	1634-04-4	
Naphthalene	52.4	ug/L	5.0	2.0	1		10/13/17 20:12	91-20-3	
Toluene	1.8J	ug/L	5.0	1.6	1		10/13/17 20:12	108-88-3	
Xylene (Total)	90.1	ug/L	5.0	5.0	1		10/13/17 20:12	1330-20-7	
m&p-Xylene	65.3	ug/L	10.0	3.1	1		10/13/17 20:12	179601-23-1	
o-Xylene	24.9	ug/L	5.0	1.6	1		10/13/17 20:12	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	92	%	70-130		1		10/13/17 20:12	460-00-4	
1,2-Dichloroethane-d4 (S)	88	%	70-130		1		10/13/17 20:12	17060-07-0	
Toluene-d8 (S)	105	%	70-130		1		10/13/17 20:12	2037-26-5	

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### ANALYTICAL RESULTS

Project: STEADY SIMMONS 18856/55293  
Pace Project No.: 92358506

Sample: MW-2									
Lab ID: 92358506002 Collected: 10/09/17 12:26 Received: 10/10/17 06:07 Matrix: Water									
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8011 GCS EDB and DBCP</b> Analytical Method: EPA 8011 Preparation Method: EPA 8011									
1,2-Dibromoethane (EDB)	1.5	ug/L	0.097	0.097	5	10/11/17 12:50	10/12/17 10:54	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	123	%	60-140		5	10/11/17 12:50	10/12/17 10:54	301-79-66	
<b>8260 MSV</b> Analytical Method: EPA 8260									
tert-Amyl Alcohol	ND	ug/L	2000	1540	20		10/13/17 20:46	75-85-4	M1
tert-Amyl methyl ether	ND	ug/L	200	68.0	20		10/13/17 20:46	994-05-8	
Benzene	346	ug/L	100	34.0	20		10/13/17 20:46	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	2000	642	20		10/13/17 20:46	624-95-3	M1
tert-Butyl Alcohol	ND	ug/L	2000	1150	20		10/13/17 20:46	75-65-0	
tert-Butyl Formate	ND	ug/L	1000	146	20		10/13/17 20:46	762-75-4	M1
1,2-Dichloroethane	ND	ug/L	100	36.0	20		10/13/17 20:46	107-06-2	
Diisopropyl ether	ND	ug/L	100	34.0	20		10/13/17 20:46	108-20-3	
Ethanol	ND	ug/L	4000	2620	20		10/13/17 20:46	64-17-5	
Ethylbenzene	658	ug/L	100	32.0	20		10/13/17 20:46	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	200	72.0	20		10/13/17 20:46	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	100	34.0	20		10/13/17 20:46	1634-04-4	
Naphthalene	238	ug/L	100	40.0	20		10/13/17 20:46	91-20-3	
Toluene	2990	ug/L	100	32.0	20		10/13/17 20:46	108-88-3	M1
Xylene (Total)	3880	ug/L	100	100	20		10/13/17 20:46	1330-20-7	
m&p-Xylene	2440	ug/L	200	62.0	20		10/13/17 20:46	179601-23-1	
o-Xylene	1440	ug/L	100	32.0	20		10/13/17 20:46	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	90	%	70-130		20		10/13/17 20:46	460-00-4	
1,2-Dichloroethane-d4 (S)	91	%	70-130		20		10/13/17 20:46	17080-07-0	
Toluene-d8 (S)	105	%	70-130		20		10/13/17 20:46	2037-26-5	

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### ANALYTICAL RESULTS

Project: STEADY SIMMONS 18856/55293  
Pace Project No.: 92358506

Sample: MW-3      Lab ID: 92358506003      Collected: 10/09/17 12:40      Received: 10/10/17 06:07      Matrix: Water									
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>8011 GCS EDB and DBCP</b> Analytical Method: EPA 8011      Preparation Method: EPA 8011									
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	0.019	1	10/11/17 12:50	10/12/17 00:57	108-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	101	%	60-140		1	10/11/17 12:50	10/12/17 00:57	301-79-56	
<b>8260 MSV</b> Analytical Method: EPA 8260									
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		10/13/17 07:29	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		10/13/17 07:29	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		10/13/17 07:29	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		10/13/17 07:29	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		10/13/17 07:29	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		10/13/17 07:29	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		10/13/17 07:29	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		10/13/17 07:29	108-20-3	
Ethanol	ND	ug/L	200	131	1		10/13/17 07:29	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		10/13/17 07:29	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		10/13/17 07:29	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		10/13/17 07:29	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		10/13/17 07:29	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		10/13/17 07:29	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		10/13/17 07:29	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	3.1	1		10/13/17 07:29	179801-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		10/13/17 07:29	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	94	%	70-130		1		10/13/17 07:29	460-00-4	
1,2-Dichloroethane-d4 (S)	92	%	70-130		1		10/13/17 07:29	17080-07-0	
Toluene-d8 (S)	110	%	70-130		1		10/13/17 07:29	2037-26-5	

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### ANALYTICAL RESULTS

Project: STEADY SIMMONS 18856/55293  
Pace Project No.: 92358506

Sample: MW-4									
Lab ID: 92358506004 Collected: 10/09/17 10:08 Received: 10/10/17 06:07 Matrix: Water									
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>8011 GCS EDB and DBCP</b>									
Analytical Method: EPA 8011 Preparation Method: EPA 8011									
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	0.019	1	10/11/17 12:50	10/12/17 01:15	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	122	%	60-140		1	10/11/17 12:50	10/12/17 01:15	301-79-56	
<b>8260 MSV</b>									
Analytical Method: EPA 8260									
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		10/13/17 07:46	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		10/13/17 07:46	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		10/13/17 07:46	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		10/13/17 07:46	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		10/13/17 07:46	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		10/13/17 07:46	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		10/13/17 07:46	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		10/13/17 07:46	108-20-3	
Ethanol	ND	ug/L	200	131	1		10/13/17 07:46	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		10/13/17 07:46	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		10/13/17 07:46	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		10/13/17 07:46	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		10/13/17 07:46	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		10/13/17 07:46	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		10/13/17 07:46	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	3.1	1		10/13/17 07:46	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		10/13/17 07:46	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	93	%	70-130		1		10/13/17 07:46	460-00-4	
1,2-Dichloroethane-d4 (S)	93	%	70-130		1		10/13/17 07:46	17060-07-0	
Toluene-d8 (S)	108	%	70-130		1		10/13/17 07:46	2037-26-5	

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### ANALYTICAL RESULTS

Project: STEADY SIMMONS 18856/55293  
Pace Project No.: 92358506

Sample: MW-5      Lab ID: 92358506005      Collected: 10/09/17 12:00      Received: 10/10/17 06:07      Matrix: Water									
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8011 GCS EDB and DBCP</b> Analytical Method: EPA 8011      Preparation Method: EPA 8011									
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	0.019	1	10/11/17 12:50	10/12/17 01:33	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	107	%	60-140		1	10/11/17 12:50	10/12/17 01:33	301-79-66	
<b>8260 MSV</b> Analytical Method: EPA 8260									
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		10/13/17 08:03	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		10/13/17 08:03	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		10/13/17 08:03	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		10/13/17 08:03	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		10/13/17 08:03	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		10/13/17 08:03	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		10/13/17 08:03	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		10/13/17 08:03	108-20-3	
Ethanol	ND	ug/L	200	131	1		10/13/17 08:03	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		10/13/17 08:03	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		10/13/17 08:03	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		10/13/17 08:03	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		10/13/17 08:03	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		10/13/17 08:03	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		10/13/17 08:03	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	3.1	1		10/13/17 08:03	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		10/13/17 08:03	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	92	%	70-130		1		10/13/17 08:03	460-00-4	
1,2-Dichloroethane-d4 (S)	90	%	70-130		1		10/13/17 08:03	17060-07-0	
Toluene-d8 (S)	106	%	70-130		1		10/13/17 08:03	2037-26-5	

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### ANALYTICAL RESULTS

Project: STEADY SIMMONS 18856/55293

Pace Project No.: 92358506

Sample: MW-6		Lab ID: 92358506006	Collected: 10/09/17 11:47	Received: 10/10/17 06:07	Matrix: Water				
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>8011 GCS EDB and DBCP</b>		Analytical Method: EPA 8011 Preparation Method: EPA 8011							
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	0.019	1	10/11/17 12:50	10/12/17 01:51	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	117	%	60-140		1	10/11/17 12:50	10/12/17 01:51	301-79-56	
<b>8260 MSV</b>		Analytical Method: EPA 8260							
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		10/13/17 08:21	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		10/13/17 08:21	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		10/13/17 08:21	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		10/13/17 08:21	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		10/13/17 08:21	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		10/13/17 08:21	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		10/13/17 08:21	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		10/13/17 08:21	108-20-3	
Ethanol	ND	ug/L	200	131	1		10/13/17 08:21	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		10/13/17 08:21	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		10/13/17 08:21	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		10/13/17 08:21	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		10/13/17 08:21	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		10/13/17 08:21	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		10/13/17 08:21	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	3.1	1		10/13/17 08:21	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		10/13/17 08:21	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	96	%	70-130		1		10/13/17 08:21	460-00-4	
1,2-Dichloroethane-d4 (S)	89	%	70-130		1		10/13/17 08:21	17060-07-0	
Toluene-d8 (S)	108	%	70-130		1		10/13/17 08:21	2037-26-5	

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### ANALYTICAL RESULTS

Project: STEADY SIMMONS 18858/55293

Pace Project No.: 92358506

Sample: MW-7		Lab ID: 92358506007	Collected: 10/09/17 11:34	Received: 10/10/17 06:07	Matrix: Water				
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8011 GCS EDB and DBCP</b>		Analytical Method: EPA 8011 Preparation Method: EPA 8011							
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	0.019	1	10/11/17 12:50	10/12/17 02:08	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	111	%	60-140		1	10/11/17 12:50	10/12/17 02:08	301-79-56	
<b>8260 MSV</b>		Analytical Method: EPA 8260							
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		10/13/17 08:38	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		10/13/17 08:38	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		10/13/17 08:38	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		10/13/17 08:38	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		10/13/17 08:38	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		10/13/17 08:38	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		10/13/17 08:38	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		10/13/17 08:38	108-20-3	
Ethanol	ND	ug/L	200	131	1		10/13/17 08:38	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		10/13/17 08:38	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		10/13/17 08:38	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		10/13/17 08:38	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		10/13/17 08:38	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		10/13/17 08:38	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		10/13/17 08:38	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	3.1	1		10/13/17 08:38	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		10/13/17 08:38	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	96	%	70-130		1		10/13/17 08:38	460-00-4	
1,2-Dichloroethane-d4 (S)	95	%	70-130		1		10/13/17 08:38	17060-07-0	
Toluene-d8 (S)	110	%	70-130		1		10/13/17 08:38	2037-26-5	

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### ANALYTICAL RESULTS

Project: STEADY SIMMONS 18858/55293  
Pace Project No.: 92358506

Sample: MW-8									
Lab ID: 92358506008 Collected: 10/09/17 11:47 Received: 10/10/17 06:07 Matrix: Water									
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>8011 GCS EDB and DBCP</b>									
Analytical Method: EPA 8011 Preparation Method: EPA 8011									
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	0.019	1	10/11/17 12:50	10/12/17 02:44	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	116	%	60-140		1	10/11/17 12:50	10/12/17 02:44	301-79-56	
<b>8260 MSV</b>									
Analytical Method: EPA 8260									
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		10/13/17 08:55	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		10/13/17 08:55	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		10/13/17 08:55	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		10/13/17 08:55	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		10/13/17 08:55	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		10/13/17 08:55	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		10/13/17 08:55	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		10/13/17 08:55	108-20-3	
Ethanol	ND	ug/L	200	131	1		10/13/17 08:55	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		10/13/17 08:55	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		10/13/17 08:55	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		10/13/17 08:55	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		10/13/17 08:55	91-20-3	
Toluene	6.6	ug/L	5.0	1.6	1		10/13/17 08:55	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		10/13/17 08:55	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	3.1	1		10/13/17 08:55	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		10/13/17 08:55	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	96	%	70-130		1		10/13/17 08:55	480-00-4	
1,2-Dichloroethane-d4 (S)	90	%	70-130		1		10/13/17 08:55	17080-07-0	
Toluene-d8 (S)	104	%	70-130		1		10/13/17 08:55	2037-26-5	

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### ANALYTICAL RESULTS

Project: STEADY SIMMONS 18856/55293  
Pace Project No.: 92358506

Sample: MW-9 Lab ID: 92358506009 Collected: 10/09/17 11:28 Received: 10/10/17 06:07 Matrix: Water									
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>8011 GCS EDB and DBCP</b> Analytical Method: EPA 8011 Preparation Method: EPA 8011									
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	10/12/17 14:36	10/12/17 17:33	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	117	%	60-140		1	10/12/17 14:36	10/12/17 17:33	301-79-56	
<b>8260 MSV</b> Analytical Method: EPA 8260									
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		10/13/17 09:47	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		10/13/17 09:47	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		10/13/17 09:47	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		10/13/17 09:47	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		10/13/17 09:47	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		10/13/17 09:47	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		10/13/17 09:47	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		10/13/17 09:47	108-20-3	
Ethanol	ND	ug/L	200	131	1		10/13/17 09:47	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		10/13/17 09:47	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		10/13/17 09:47	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		10/13/17 09:47	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		10/13/17 09:47	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		10/13/17 09:47	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		10/13/17 09:47	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	3.1	1		10/13/17 09:47	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		10/13/17 09:47	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	94	%	70-130		1		10/13/17 09:47	460-00-4	
1,2-Dichloroethane-d4 (S)	94	%	70-130		1		10/13/17 09:47	17060-07-0	
Toluene-d8 (S)	104	%	70-130		1		10/13/17 09:47	2037-26-5	

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### ANALYTICAL RESULTS

Project: STEADY SIMMONS 18856/55293

Pace Project No.: 92358506

Sample: MW-10 Lab ID: 92358506010 Collected: 10/09/17 11:13 Received: 10/10/17 06:07 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>8011 GCS EDB and DBCP</b>									
Analytical Method: EPA 8011 Preparation Method: EPA 8011									
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	10/12/17 14:36	10/12/17 17:52	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	106	%	60-140		1	10/12/17 14:36	10/12/17 17:52	301-79-56	
<b>8260 MSV</b>									
Analytical Method: EPA 8260									
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		10/17/17 06:56	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		10/17/17 06:56	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		10/17/17 06:56	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		10/17/17 06:56	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		10/17/17 06:56	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		10/17/17 06:56	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		10/17/17 06:56	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		10/17/17 06:56	108-20-3	
Ethanol	ND	ug/L	200	131	1		10/17/17 06:56	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		10/17/17 06:56	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		10/17/17 06:56	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		10/17/17 06:56	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		10/17/17 06:56	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		10/17/17 06:56	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		10/17/17 06:56	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	3.1	1		10/17/17 06:56	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		10/17/17 06:56	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	93	%	70-130		1		10/17/17 06:56	460-00-4	
1,2-Dichloroethane-d4 (S)	92	%	70-130		1		10/17/17 06:56	17060-07-0	
Toluene-d8 (S)	108	%	70-130		1		10/17/17 06:56	2037-26-5	

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### ANALYTICAL RESULTS

Project: STEADY SIMMONS 18856/55293  
Pace Project No.: 92358506

Sample: MW-11      Lab ID: 92358506011      Collected: 10/09/17 10:45      Received: 10/10/17 06:07      Matrix: Water									
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>8011 GCS EDB and DBCP</b> Analytical Method: EPA 8011      Preparation Method: EPA 8011									
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	10/12/17 14:36	10/12/17 18:10	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	107	%	60-140		1	10/12/17 14:36	10/12/17 18:10	301-79-56	
<b>8260 MSV</b> Analytical Method: EPA 8260									
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		10/13/17 10:05	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		10/13/17 10:05	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		10/13/17 10:05	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		10/13/17 10:05	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		10/13/17 10:05	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		10/13/17 10:05	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		10/13/17 10:05	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		10/13/17 10:05	108-20-3	
Ethanol	ND	ug/L	200	131	1		10/13/17 10:05	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		10/13/17 10:05	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		10/13/17 10:05	637-92-3	
Methyl-tert-butyl ether	4.1J	ug/L	5.0	1.7	1		10/13/17 10:05	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		10/13/17 10:05	91-20-3	
Toluene	ND	ug/L	5.0	1.8	1		10/13/17 10:05	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		10/13/17 10:05	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	3.1	1		10/13/17 10:05	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		10/13/17 10:05	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	96	%	70-130		1		10/13/17 10:05	460-00-4	
1,2-Dichloroethane-d4 (S)	93	%	70-130		1		10/13/17 10:05	17060-07-0	
Toluene-d8 (S)	108	%	70-130		1		10/13/17 10:05	2037-26-5	

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### ANALYTICAL RESULTS

Project: STEADY SIMMONS 18856/55293

Pace Project No.: 92358506

Sample: MW-12 Lab ID: 92358506012 Collected: 10/09/17 10:31 Received: 10/10/17 06:07 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>8011 GCS EDB and DBCP</b>									
Analytical Method: EPA 8011 Preparation Method: EPA 8011									
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	10/12/17 14:36	10/12/17 18:28	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	120	%	60-140		1	10/12/17 14:36	10/12/17 18:28	301-79-56	
<b>8260 MSV</b>									
Analytical Method: EPA 8260									
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		10/13/17 19:55	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		10/13/17 19:55	994-05-8	
Benzene	146	ug/L	5.0	1.7	1		10/13/17 19:55	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		10/13/17 19:55	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		10/13/17 19:55	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		10/13/17 19:55	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		10/13/17 19:55	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		10/13/17 19:55	108-20-3	
Ethanol	ND	ug/L	200	131	1		10/13/17 19:55	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		10/13/17 19:55	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		10/13/17 19:55	637-92-3	
Methyl-tert-butyl ether	15.8	ug/L	5.0	1.7	1		10/13/17 19:55	1634-04-4	
Naphthalene	13.8	ug/L	5.0	2.0	1		10/13/17 19:55	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		10/13/17 19:55	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		10/13/17 19:55	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	3.1	1		10/13/17 19:55	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		10/13/17 19:55	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	96	%	70-130		1		10/13/17 19:55	460-00-4	
1,2-Dichloroethane-d4 (S)	97	%	70-130		1		10/13/17 19:55	17060-07-0	
Toluene-d8 (S)	103	%	70-130		1		10/13/17 19:55	2037-26-5	

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### ANALYTICAL RESULTS

Project: STEADY SIMMONS 18856/55293  
Pace Project No.: 92358506

Sample: MW-13      Lab ID: 92358506013      Collected: 10/09/17 10:18      Received: 10/10/17 06:07      Matrix: Water									
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8011 GCS EDB and DBCP</b> Analytical Method: EPA 8011      Preparation Method: EPA 8011									
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	10/12/17 14:37	10/12/17 18:46	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	120	%	60-140		1	10/12/17 14:37	10/12/17 18:46	301-79-56	
<b>8260 MSV</b> Analytical Method: EPA 8260									
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		10/13/17 10:22	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		10/13/17 10:22	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		10/13/17 10:22	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		10/13/17 10:22	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		10/13/17 10:22	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		10/13/17 10:22	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		10/13/17 10:22	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		10/13/17 10:22	108-20-3	
Ethanol	ND	ug/L	200	131	1		10/13/17 10:22	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		10/13/17 10:22	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		10/13/17 10:22	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		10/13/17 10:22	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		10/13/17 10:22	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		10/13/17 10:22	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		10/13/17 10:22	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	3.1	1		10/13/17 10:22	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		10/13/17 10:22	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	95	%	70-130		1		10/13/17 10:22	460-00-4	
1,2-Dichloroethane-d4 (S)	94	%	70-130		1		10/13/17 10:22	17060-07-0	
Toluene-d8 (S)	112	%	70-130		1		10/13/17 10:22	2037-26-5	

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### ANALYTICAL RESULTS

Project: STEADY SIMMONS 18856/55293  
Pace Project No.: 92358506

Sample: MW-14									
Lab ID: 92358506014 Collected: 10/09/17 12:26 Received: 10/10/17 06:07 Matrix: Water									
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>8011 GCS EDB and DBCP</b>									
Analytical Method: EPA 8011 Preparation Method: EPA 8011									
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	10/12/17 14:37	10/12/17 19:04	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	108	%	60-140		1	10/12/17 14:37	10/12/17 19:04	301-79-56	
<b>8260 MSV</b>									
Analytical Method: EPA 8260									
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		10/13/17 10:39	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		10/13/17 10:39	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		10/13/17 10:39	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		10/13/17 10:39	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		10/13/17 10:39	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		10/13/17 10:39	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		10/13/17 10:39	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		10/13/17 10:39	108-20-3	
Ethanol	ND	ug/L	200	131	1		10/13/17 10:39	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		10/13/17 10:39	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		10/13/17 10:39	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		10/13/17 10:39	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		10/13/17 10:39	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		10/13/17 10:39	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		10/13/17 10:39	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	3.1	1		10/13/17 10:39	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		10/13/17 10:39	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	98	%	70-130		1		10/13/17 10:39	460-00-4	
1,2-Dichloroethane-d4 (S)	93	%	70-130		1		10/13/17 10:39	17060-07-0	
Toluene-d8 (S)	108	%	70-130		1		10/13/17 10:39	2037-26-5	

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### ANALYTICAL RESULTS

Project: STEADY SIMMONS 18856/55293  
Pace Project No.: 92358506

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>Sample: MW-16</b>									
<b>Lab ID: 92358506015</b>									
Collected: 10/09/17 12:13 Received: 10/10/17 06:07 Matrix: Water									
Analytical Method: EPA 8011 Preparation Method: EPA 8011									
<b>8011 GCS EDB and DBCP</b>									
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	10/12/17 14:39	10/12/17 19:22	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	121	%	60-140		1	10/12/17 14:39	10/12/17 19:22	301-79-56	
<b>8260 MSV</b>									
Analytical Method: EPA 8260									
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		10/13/17 09:12	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		10/13/17 09:12	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		10/13/17 09:12	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		10/13/17 09:12	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		10/13/17 09:12	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		10/13/17 09:12	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		10/13/17 09:12	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		10/13/17 09:12	108-20-3	
Ethanol	ND	ug/L	200	131	1		10/13/17 09:12	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		10/13/17 09:12	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		10/13/17 09:12	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		10/13/17 09:12	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		10/13/17 09:12	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		10/13/17 09:12	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		10/13/17 09:12	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	3.1	1		10/13/17 09:12	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		10/13/17 09:12	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	97	%	70-130		1		10/13/17 09:12	460-00-4	
1,2-Dichloroethane-d4 (S)	92	%	70-130		1		10/13/17 09:12	17060-07-0	
Toluene-d8 (S)	104	%	70-130		1		10/13/17 09:12	2037-26-5	

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### ANALYTICAL RESULTS

Project: STEADY SIMMONS 18856/55293

Pace Project No.: 92358506

Sample: MW-17 Lab ID: 92358506016 Collected: 10/09/17 09:55 Received: 10/10/17 06:07 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>8011 GCS EDB and DBCP</b>									
Analytical Method: EPA 8011 Preparation Method: EPA 8011									
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	10/12/17 14:39	10/12/17 19:41	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	131	%	60-140		1	10/12/17 14:39	10/12/17 19:41	301-79-56	
<b>8260 MSV</b>									
Analytical Method: EPA 8260									
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		10/13/17 09:30	75-85-4	
tert-Amyl methyl ether	ND	ug/L	10.0	3.4	1		10/13/17 09:30	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		10/13/17 09:30	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		10/13/17 09:30	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		10/13/17 09:30	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		10/13/17 09:30	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		10/13/17 09:30	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		10/13/17 09:30	108-20-3	
Ethanol	ND	ug/L	200	131	1		10/13/17 09:30	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		10/13/17 09:30	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		10/13/17 09:30	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		10/13/17 09:30	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		10/13/17 09:30	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		10/13/17 09:30	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		10/13/17 09:30	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	3.1	1		10/13/17 09:30	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		10/13/17 09:30	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	95	%	70-130		1		10/13/17 09:30	460-00-4	
1,2-Dichloroethane-d4 (S)	91	%	70-130		1		10/13/17 09:30	17060-07-0	
Toluene-d8 (S)	107	%	70-130		1		10/13/17 09:30	2037-26-5	

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### ANALYTICAL RESULTS

Project: STEADY SIMMONS 18856/55293  
Pace Project No.: 92358506

Sample: DW-1									
Lab ID: 92358506017									
Collected: 10/09/17 11:41									
Received: 10/10/17 06:07									
Matrix: Water									
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8011 GCS EDB and DBCP</b>									
Analytical Method: EPA 8011 Preparation Method: EPA 8011									
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	10/12/17 14:39	10/12/17 19:59	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	107	%	60-140		1	10/12/17 14:39	10/12/17 19:59	301-79-56	
<b>8260 MSV</b>									
Analytical Method: EPA 8260									
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		10/13/17 10:57	75-85-4	
tert-Amyl methyl ether	ND	ug/L	10.0	3.4	1		10/13/17 10:57	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		10/13/17 10:57	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		10/13/17 10:57	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		10/13/17 10:57	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		10/13/17 10:57	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		10/13/17 10:57	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		10/13/17 10:57	108-20-3	
Ethanol	ND	ug/L	200	131	1		10/13/17 10:57	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		10/13/17 10:57	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		10/13/17 10:57	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		10/13/17 10:57	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		10/13/17 10:57	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		10/13/17 10:57	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		10/13/17 10:57	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	3.1	1		10/13/17 10:57	179801-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		10/13/17 10:57	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	95	%	70-130		1		10/13/17 10:57	460-00-4	
1,2-Dichloroethane-d4 (S)	98	%	70-130		1		10/13/17 10:57	17060-07-0	
Toluene-d8 (S)	106	%	70-130		1		10/13/17 10:57	2037-26-5	

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### ANALYTICAL RESULTS

Project: STEADY SIMMONS 18856/55293  
Pace Project No.: 92358506

Sample: DW-2									
Lab ID: 92358506018 Collected: 10/09/17 11:15 Received: 10/10/17 06:07 Matrix: Water									
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>8011 GCS EDB and DBCP</b>									
Analytical Method: EPA 8011 Preparation Method: EPA 8011									
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	10/12/17 14:40	10/12/17 20:17	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	108	%	60-140		1	10/12/17 14:40	10/12/17 20:17	301-79-56	
<b>8260 MSV</b>									
Analytical Method: EPA 8260									
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		10/17/17 05:08	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		10/17/17 05:08	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		10/17/17 05:08	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		10/17/17 05:08	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		10/17/17 05:08	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		10/17/17 05:08	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		10/17/17 05:08	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		10/17/17 05:08	108-20-3	
Ethanol	ND	ug/L	200	131	1		10/17/17 05:08	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		10/17/17 05:08	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		10/17/17 05:08	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		10/17/17 05:08	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		10/17/17 05:08	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		10/17/17 05:08	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		10/17/17 05:08	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	3.1	1		10/17/17 05:08	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		10/17/17 05:08	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	98	%	70-130		1		10/17/17 05:08	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%	70-130		1		10/17/17 05:08	17060-07-0	
Toluene-d8 (S)	103	%	70-130		1		10/17/17 05:08	2037-26-5	

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### ANALYTICAL RESULTS

Project: STEADY SIMMONS 18858/55293

Pace Project No.: 92358506

Sample: DW-3									
Lab ID: 92358506019 Collected: 10/09/17 11:00 Received: 10/10/17 06:07 Matrix: Water									
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>8011 GCS EDB and DBCP</b>									
Analytical Method: EPA 8011 Preparation Method: EPA 8011									
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	10/12/17 14:40	10/12/17 21:12	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	110	%	60-140		1	10/12/17 14:40	10/12/17 21:12	301-79-56	
<b>8260 MSV</b>									
Analytical Method: EPA 8260									
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		10/17/17 05:25	75-85-4	
tert-Amyl methyl ether	ND	ug/L	10.0	3.4	1		10/17/17 05:25	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		10/17/17 05:25	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		10/17/17 05:25	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		10/17/17 05:25	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		10/17/17 05:25	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		10/17/17 05:25	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		10/17/17 05:25	108-20-3	
Ethanol	ND	ug/L	200	131	1		10/17/17 05:25	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		10/17/17 05:25	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		10/17/17 05:25	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		10/17/17 05:25	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		10/17/17 05:25	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		10/17/17 05:25	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		10/17/17 05:25	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	3.1	1		10/17/17 05:25	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		10/17/17 05:25	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	97	%	70-130		1		10/17/17 05:25	460-00-4	
1,2-Dichloroethane-d4 (S)	107	%	70-130		1		10/17/17 05:25	17060-07-0	
Toluene-d8 (S)	102	%	70-130		1		10/17/17 05:25	2037-26-5	

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### ANALYTICAL RESULTS

Project: STEADY SIMMONS 18856/55293

Pace Project No.: 92358506

Sample: DW-4									
Lab ID: 92358506020 Collected: 10/09/17 10:30 Received: 10/10/17 06:07 Matrix: Water									
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8011 GCS EDB and DBCP</b>									
Analytical Method: EPA 8011 Preparation Method: EPA 8011									
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	10/12/17 14:40	10/12/17 21:30	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	111	%	60-140		1	10/12/17 14:40	10/12/17 21:30	301-79-56	
<b>8260 MSV</b>									
Analytical Method: EPA 8260									
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		10/17/17 05:43	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		10/17/17 05:43	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		10/17/17 05:43	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		10/17/17 05:43	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		10/17/17 05:43	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		10/17/17 05:43	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		10/17/17 05:43	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		10/17/17 05:43	108-20-3	
Ethanol	ND	ug/L	200	131	1		10/17/17 05:43	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		10/17/17 05:43	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		10/17/17 05:43	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		10/17/17 05:43	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		10/17/17 05:43	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		10/17/17 05:43	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		10/17/17 05:43	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	3.1	1		10/17/17 05:43	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		10/17/17 05:43	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	97	%	70-130		1		10/17/17 05:43	480-00-4	
1,2-Dichloroethane-d4 (S)	104	%	70-130		1		10/17/17 05:43	17060-07-0	
Toluene-d8 (S)	101	%	70-130		1		10/17/17 05:43	2037-26-5	

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### ANALYTICAL RESULTS

Project: STEADY SIMMONS 18856/55293  
Pace Project No.: 92358506

Sample: DW-6      Lab ID: 92358506021      Collected: 10/09/17 12:14      Received: 10/10/17 06:07      Matrix: Water									
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8011 GCS EDB and DBCP</b> Analytical Method: EPA 8011      Preparation Method: EPA 8011									
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	10/12/17 14:44	10/12/17 21:48	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	113	%	60-140		1	10/12/17 14:44	10/12/17 21:48	301-79-56	
<b>8260 MSV</b> Analytical Method: EPA 8260									
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		10/17/17 06:00	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		10/17/17 06:00	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		10/17/17 06:00	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		10/17/17 06:00	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		10/17/17 06:00	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		10/17/17 06:00	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		10/17/17 06:00	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		10/17/17 06:00	108-20-3	
Ethanol	ND	ug/L	200	131	1		10/17/17 06:00	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		10/17/17 06:00	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		10/17/17 06:00	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		10/17/17 06:00	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		10/17/17 06:00	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		10/17/17 06:00	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		10/17/17 06:00	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	3.1	1		10/17/17 06:00	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		10/17/17 06:00	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	98	%	70-130		1		10/17/17 06:00	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	70-130		1		10/17/17 06:00	17060-07-0	
Toluene-d8 (S)	105	%	70-130		1		10/17/17 06:00	2037-26-5	

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### ANALYTICAL RESULTS

Project: STEADY SIMMONS 18856/55293

Pace Project No.: 92358506

Sample: DW-7									
Lab ID: 92358506022 Collected: 10/09/17 12:55 Received: 10/10/17 06:07 Matrix: Water									
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8011 GCS EDB and DBCP</b>									
Analytical Method: EPA 8011 Preparation Method: EPA 8011									
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	10/12/17 14:44	10/12/17 22:06	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	113	%	60-140		1	10/12/17 14:44	10/12/17 22:06	301-79-56	
<b>8260 MSV</b>									
Analytical Method: EPA 8260									
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		10/17/17 06:17	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		10/17/17 06:17	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		10/17/17 06:17	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		10/17/17 06:17	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		10/17/17 06:17	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		10/17/17 06:17	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		10/17/17 06:17	107-08-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		10/17/17 06:17	108-20-3	
Ethanol	ND	ug/L	200	131	1		10/17/17 06:17	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		10/17/17 06:17	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		10/17/17 06:17	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		10/17/17 06:17	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		10/17/17 06:17	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		10/17/17 06:17	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		10/17/17 06:17	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	3.1	1		10/17/17 06:17	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		10/17/17 06:17	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	99	%	70-130		1		10/17/17 06:17	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	70-130		1		10/17/17 06:17	17080-07-0	
Toluene-d8 (S)	101	%	70-130		1		10/17/17 06:17	2037-26-5	

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### ANALYTICAL RESULTS

Project: STEADY SIMMONS 18856/55293  
Pace Project No.: 92358506

Sample: DW-8      Lab ID: 92358506023      Collected: 10/09/17 10:05      Received: 10/10/17 06:07      Matrix: Water									
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>8011 GCS EDB and DBCP</b> Analytical Method: EPA 8011      Preparation Method: EPA 8011									
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	10/12/17 14:44	10/12/17 22:24	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	107	%	80-140		1	10/12/17 14:44	10/12/17 22:24	301-79-56	
<b>8260 MSV</b> Analytical Method: EPA 8260									
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		10/17/17 06:34	75-85-4	
tert-Amyl methyl ether	ND	ug/L	10.0	3.4	1		10/17/17 06:34	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		10/17/17 06:34	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		10/17/17 06:34	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		10/17/17 06:34	75-85-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		10/17/17 06:34	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		10/17/17 06:34	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		10/17/17 06:34	108-20-3	
Ethanol	ND	ug/L	200	131	1		10/17/17 06:34	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		10/17/17 06:34	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		10/17/17 06:34	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		10/17/17 06:34	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		10/17/17 06:34	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		10/17/17 06:34	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		10/17/17 06:34	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	3.1	1		10/17/17 06:34	179801-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		10/17/17 06:34	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	98	%	70-130		1		10/17/17 06:34	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	70-130		1		10/17/17 06:34	17060-07-0	
Toluene-d8 (S)	103	%	70-130		1		10/17/17 06:34	2037-26-5	

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### ANALYTICAL RESULTS

Project: STEADY SIMMONS 18858/55293  
Pace Project No.: 92358506

Sample: DUPLICATE 1      Lab ID: 92358506024      Collected: 10/09/17 12:13      Received: 10/10/17 06:07      Matrix: Water									
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>8011 GCS EDB and DBCP</b> Analytical Method: EPA 8011      Preparation Method: EPA 8011									
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	10/12/17 14:46	10/12/17 22:42	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	128	%	60-140		1	10/12/17 14:46	10/12/17 22:42	301-79-56	
<b>8260 MSV</b> Analytical Method: EPA 8260									
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		10/17/17 06:51	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		10/17/17 06:51	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		10/17/17 06:51	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		10/17/17 06:51	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		10/17/17 06:51	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		10/17/17 06:51	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		10/17/17 06:51	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		10/17/17 06:51	108-20-3	
Ethanol	ND	ug/L	200	131	1		10/17/17 06:51	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		10/17/17 06:51	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		10/17/17 06:51	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		10/17/17 06:51	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		10/17/17 06:51	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		10/17/17 06:51	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		10/17/17 06:51	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	3.1	1		10/17/17 06:51	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		10/17/17 06:51	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	99	%	70-130		1		10/17/17 06:51	460-00-4	
1,2-Dichloroethane-d4 (S)	107	%	70-130		1		10/17/17 06:51	17060-07-0	
Toluene-d8 (S)	100	%	70-130		1		10/17/17 06:51	2037-26-5	

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### ANALYTICAL RESULTS

Project: STEADY SIMMONS 18856/55293  
Pace Project No.: 92358506

Sample: DUPLICATE 2      Lab ID: 92358506025      Collected: 10/09/17 12:28      Received: 10/10/17 06:07      Matrix: Water									
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8011 GCS EDB and DBCP</b> Analytical Method: EPA 8011      Preparation Method: EPA 8011									
1,2-Dibromoethane (EDB)	1.2	ug/L	0.039	0.039	2	10/16/17 10:54	10/16/17 21:22	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	120	%	60-140		2	10/16/17 10:54	10/16/17 21:22	301-79-56	
<b>8260 MSV</b> Analytical Method: EPA 8260									
tert-Amyl Alcohol	ND	ug/L	1000	768	10		10/17/17 09:25	75-85-4	
tert-Amylmethyl ether	ND	ug/L	100	34.0	10		10/17/17 09:25	994-05-8	
Benzene	233	ug/L	50.0	17.0	10		10/17/17 09:25	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	1000	321	10		10/17/17 09:25	624-95-3	
tert-Butyl Alcohol	ND	ug/L	1000	577	10		10/17/17 09:25	75-65-0	
tert-Butyl Formate	ND	ug/L	500	73.0	10		10/17/17 09:25	762-75-4	
1,2-Dichloroethane	ND	ug/L	50.0	18.0	10		10/17/17 09:25	107-06-2	
Diisopropyl ether	ND	ug/L	50.0	17.0	10		10/17/17 09:25	108-20-3	
Ethanol	ND	ug/L	2000	1310	10		10/17/17 09:25	64-17-5	
Ethylbenzene	447	ug/L	50.0	16.0	10		10/17/17 09:25	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	100	36.0	10		10/17/17 09:25	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	50.0	17.0	10		10/17/17 09:25	1634-04-4	
Naphthalene	193	ug/L	50.0	20.0	10		10/17/17 09:25	91-20-3	
Toluene	1930	ug/L	50.0	16.0	10		10/17/17 09:25	108-88-3	
Xylene (Total)	3120	ug/L	50.0	50.0	10		10/17/17 09:25	1330-20-7	
m&p-Xylene	1920	ug/L	100	31.0	10		10/17/17 09:25	179601-23-1	
o-Xylene	1200	ug/L	50.0	16.0	10		10/17/17 09:25	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	102	%	70-130		10		10/17/17 09:25	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	70-130		10		10/17/17 09:25	17060-07-0	
Toluene-d8 (S)	99	%	70-130		10		10/17/17 09:25	2037-26-5	

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### ANALYTICAL RESULTS

Project: STEADY SIMMONS 18856/55293  
Pace Project No.: 92358506

Sample: FIELD BLANK      Lab ID: 92358506026      Collected: 10/09/17 13:15      Received: 10/10/17 06:07      Matrix: Water									
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>8011 GCS EDB and DBCP</b> Analytical Method: EPA 8011      Preparation Method: EPA 8011									
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	10/12/17 14:47	10/12/17 23:18	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	117	%	60-140		1	10/12/17 14:47	10/12/17 23:18	301-79-56	
<b>8260 MSV</b> Analytical Method: EPA 8260									
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		10/12/17 17:39	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		10/12/17 17:39	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		10/12/17 17:39	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		10/12/17 17:39	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		10/12/17 17:39	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		10/12/17 17:39	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		10/12/17 17:39	107-08-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		10/12/17 17:39	108-20-3	
Ethanol	ND	ug/L	200	131	1		10/12/17 17:39	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		10/12/17 17:39	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		10/12/17 17:39	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		10/12/17 17:39	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		10/12/17 17:39	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		10/12/17 17:39	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		10/12/17 17:39	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	3.1	1		10/12/17 17:39	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		10/12/17 17:39	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	94	%	70-130		1		10/12/17 17:39	460-00-4	
1,2-Dichloroethane-d4 (S)	92	%	70-130		1		10/12/17 17:39	17080-07-0	
Toluene-d8 (S)	106	%	70-130		1		10/12/17 17:39	2037-26-5	

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: STEADY SIMMONS 18858/55293  
Pace Project No.: 92358506

Sample: TRIP BLANK Lab ID: 92358506027 Collected: 10/09/17 13:17 Received: 10/10/17 06:07 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>8260 MSV</b>									
Analytical Method: EPA 8260									
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		10/12/17 17:05	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		10/12/17 17:05	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		10/12/17 17:05	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		10/12/17 17:05	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		10/12/17 17:05	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		10/12/17 17:05	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		10/12/17 17:05	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		10/12/17 17:05	108-20-3	
Ethanol	ND	ug/L	200	131	1		10/12/17 17:05	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		10/12/17 17:05	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		10/12/17 17:05	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		10/12/17 17:05	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		10/12/17 17:05	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		10/12/17 17:05	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		10/12/17 17:05	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	3.1	1		10/12/17 17:05	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		10/12/17 17:05	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	93	%	70-130		1		10/12/17 17:05	460-00-4	
1,2-Dichloroethane-d4 (S)	94	%	70-130		1		10/12/17 17:05	17060-07-0	
Toluene-d8 (S)	105	%	70-130		1		10/12/17 17:05	2037-26-5	

### REPORT OF LABORATORY ANALYSIS

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**ANALYTICAL RESULTS**

Project: STEADY SIMMONS 18856/55293  
Pace Project No.: 92358506

Sample: SW-1									
Lab ID: 92358506028 Collected: 10/09/17 13:05 Received: 10/10/17 06:07 Matrix: Water									
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8011 GCS EDB and DBCP</b> Analytical Method: EPA 8011 Preparation Method: EPA 8011									
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	10/12/17 14:47	10/12/17 23:36	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	115	%	60-140		1	10/12/17 14:47	10/12/17 23:36	301-79-56	
<b>8260 MSV Low Level SC</b> Analytical Method: EPA 8260									
tert-Amyl Alcohol	ND	ug/L	100	50.0	1		10/14/17 12:35	75-85-4	
tert-Amyl methyl ether	ND	ug/L	10.0	0.10	1		10/14/17 12:35	994-05-8	
Benzene	ND	ug/L	1.0	0.25	1		10/14/17 12:35	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	50.0	1		10/14/17 12:35	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	3.6	1		10/14/17 12:35	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	1.9	1		10/14/17 12:35	762-75-4	M1
1,2-Dichloroethane	ND	ug/L	1.0	0.24	1		10/14/17 12:35	107-06-2	
Diisopropyl ether	ND	ug/L	1.0	0.12	1		10/14/17 12:35	108-20-3	
Ethanol	ND	ug/L	200	131	1		10/14/17 12:35	64-17-5	M1
Ethylbenzene	ND	ug/L	1.0	0.30	1		10/14/17 12:35	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	0.070	1		10/14/17 12:35	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.21	1		10/14/17 12:35	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.24	1		10/14/17 12:35	91-20-3	
Toluene	ND	ug/L	1.0	0.26	1		10/14/17 12:35	108-88-3	
Xylene (Total)	ND	ug/L	1.0	1.0	1		10/14/17 12:35	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.66	1		10/14/17 12:35	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.23	1		10/14/17 12:35	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	96	%	70-130		1		10/14/17 12:35	460-00-4	
1,2-Dichloroethane-d4 (S)	94	%	70-130		1		10/14/17 12:35	17060-07-0	
Toluene-d8 (S)	102	%	70-130		1		10/14/17 12:35	2037-26-5	

**REPORT OF LABORATORY ANALYSIS**

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### ANALYTICAL RESULTS

Project: STEADY SIMMONS 18856/55293  
Pace Project No.: 92358506

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>Sample: SW-2</b>									
<b>Lab ID: 92358506029</b>									
Collected: 10/09/17 13:10 Received: 10/10/17 06:07 Matrix: Water									
Analytical Method: EPA 8011 Preparation Method: EPA 8011									
<b>8011 GCS EDB and DBCP</b>									
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	10/12/17 14:47	10/13/17 00:12	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	128	%	60-140		1	10/12/17 14:47	10/13/17 00:12	301-79-56	
<b>8260 MSV Low Level SC</b>									
Analytical Method: EPA 8260									
tert-Amyl Alcohol	ND	ug/L	100	50.0	1		10/14/17 12:53	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	0.10	1		10/14/17 12:53	994-05-8	
Benzene	ND	ug/L	1.0	0.25	1		10/14/17 12:53	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	50.0	1		10/14/17 12:53	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	3.6	1		10/14/17 12:53	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	1.9	1		10/14/17 12:53	762-75-4	
1,2-Dichloroethane	ND	ug/L	1.0	0.24	1		10/14/17 12:53	107-06-2	
Diisopropyl ether	ND	ug/L	1.0	0.12	1		10/14/17 12:53	108-20-3	
Ethanol	ND	ug/L	200	131	1		10/14/17 12:53	64-17-5	
Ethylbenzene	ND	ug/L	1.0	0.30	1		10/14/17 12:53	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	0.070	1		10/14/17 12:53	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.21	1		10/14/17 12:53	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.24	1		10/14/17 12:53	91-20-3	
Toluene	ND	ug/L	1.0	0.26	1		10/14/17 12:53	108-88-3	
Xylene (Total)	ND	ug/L	1.0	1.0	1		10/14/17 12:53	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.66	1		10/14/17 12:53	179801-23-1	
o-Xylene	ND	ug/L	1.0	0.23	1		10/14/17 12:53	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	96	%	70-130		1		10/14/17 12:53	460-00-4	
1,2-Dichloroethane-d4 (S)	95	%	70-130		1		10/14/17 12:53	17060-07-0	
Toluene-d8 (S)	101	%	70-130		1		10/14/17 12:53	2037-26-5	

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### QUALITY CONTROL DATA

Project: STEADY SIMMONS 18856/55293  
Pace Project No.: 92358506

QC Batch: 382422 Analysis Method: EPA 8260  
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV Low Level SC  
Associated Lab Samples: 92358506028, 92358506029

METHOD BLANK: 2119446 Matrix: Water  
Associated Lab Samples: 92358506028, 92358506029

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	1.0	0.24	10/14/17 20:53	
3,3-Dimethyl-1-Butanol	ug/L	ND	100	50.0	10/14/17 20:53	
Benzene	ug/L	ND	1.0	0.25	10/14/17 20:53	
Diisopropyl ether	ug/L	ND	1.0	0.12	10/14/17 20:53	
Ethanol	ug/L	ND	200	131	10/14/17 20:53	
Ethyl-tert-butyl ether	ug/L	ND	10.0	0.070	10/14/17 20:53	
Ethylbenzene	ug/L	ND	1.0	0.30	10/14/17 20:53	
m&p-Xylene	ug/L	ND	2.0	0.66	10/14/17 20:53	
Methyl-tert-butyl ether	ug/L	ND	1.0	0.21	10/14/17 20:53	
Naphthalene	ug/L	ND	1.0	0.24	10/14/17 20:53	
o-Xylene	ug/L	ND	1.0	0.23	10/14/17 20:53	
tert-Amyl Alcohol	ug/L	ND	100	50.0	10/14/17 20:53	
tert-Amylmethyl ether	ug/L	ND	10.0	0.10	10/14/17 20:53	
tert-Butyl Alcohol	ug/L	ND	100	3.6	10/14/17 20:53	
tert-Butyl Formate	ug/L	ND	50.0	1.9	10/14/17 20:53	
Toluene	ug/L	ND	1.0	0.26	10/14/17 20:53	
Xylene (Total)	ug/L	ND	1.0	1.0	10/14/17 20:53	
1,2-Dichloroethane-d4 (S)	%	106	70-130		10/14/17 20:53	
4-Bromofluorobenzene (S)	%	98	70-130		10/14/17 20:53	
Toluene-d8 (S)	%	100	70-130		10/14/17 20:53	

LABORATORY CONTROL SAMPLE: 2119447

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	50	39.9	80	70-130	
3,3-Dimethyl-1-Butanol	ug/L	1000	1030	103	70-130	
Benzene	ug/L	50	45.7	91	70-130	
Diisopropyl ether	ug/L	50	43.9	88	70-130	
Ethanol	ug/L	2000	1900	95	70-130	
Ethyl-tert-butyl ether	ug/L	100	90.5	91	70-130	
Ethylbenzene	ug/L	50	45.0	90	70-130	
m&p-Xylene	ug/L	100	89.7	90	70-130	
Methyl-tert-butyl ether	ug/L	50	46.4	93	70-130	
Naphthalene	ug/L	50	53.1	106	70-130	
o-Xylene	ug/L	50	47.3	95	70-130	
tert-Amyl Alcohol	ug/L	1000	953	95	70-130	
tert-Amylmethyl ether	ug/L	100	93.2	93	70-130	
tert-Butyl Alcohol	ug/L	500	472	94	70-130	
tert-Butyl Formate	ug/L	400	357	89	70-130	
Toluene	ug/L	50	45.7	91	70-130	

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### QUALITY CONTROL DATA

Project: STEADY SIMMONS 18856/55293  
Pace Project No.: 92358506

LABORATORY CONTROL SAMPLE: 2119447

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Xylene (Total)	ug/L	150	137	91	70-130	
1,2-Dichloroethane-d4 (S)	%			88	70-130	
4-Bromofluorobenzene (S)	%			99	70-130	
Toluene-d8 (S)	%			99	70-130	

MATRIX SPIKE SAMPLE: 2119448

Parameter	Units	92358506028 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	ND	20	20.0	100	70-130	
3,3-Dimethyl-1-Butanol	ug/L	ND	400	463	116	70-130	
Benzene	ug/L	ND	20	20.9	104	70-130	
Diisopropyl ether	ug/L	ND	20	19.0	95	70-130	
Ethanol	ug/L	ND	800	1280	160	70-130 M1	
Ethyl-tert-butyl ether	ug/L	ND	40	39.8	99	70-130	
Ethylbenzene	ug/L	ND	20	21.5	107	70-130	
m&p-Xylene	ug/L	ND	40	43.0	107	70-130	
Methyl-tert-butyl ether	ug/L	ND	20	20.3	101	70-130	
Naphthalene	ug/L	ND	20	23.0	115	70-130	
o-Xylene	ug/L	ND	20	21.3	106	70-130	
tert-Amyl Alcohol	ug/L	ND	400	458	115	70-130	
tert-Amylmethyl ether	ug/L	ND	40	41.5	104	70-130	
tert-Butyl Alcohol	ug/L	ND	200	249	125	70-130	
tert-Butyl Formate	ug/L	ND	160	106	66	70-130 M1,P5	
Toluene	ug/L	ND	20	21.1	106	70-130	
1,2-Dichloroethane-d4 (S)	%				98	70-130	
4-Bromofluorobenzene (S)	%				100	70-130	
Toluene-d8 (S)	%				96	70-130	

SAMPLE DUPLICATE: 2119449

Parameter	Units	92358506029 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2-Dichloroethane	ug/L	ND	ND		30	
3,3-Dimethyl-1-Butanol	ug/L	ND	ND		30	
Benzene	ug/L	ND	ND		30	
Diisopropyl ether	ug/L	ND	ND		30	
Ethanol	ug/L	ND	ND		30	
Ethyl-tert-butyl ether	ug/L	ND	ND		30	
Ethylbenzene	ug/L	ND	ND		30	
m&p-Xylene	ug/L	ND	ND		30	
Methyl-tert-butyl ether	ug/L	ND	ND		30	
Naphthalene	ug/L	ND	ND		30	
o-Xylene	ug/L	ND	ND		30	
tert-Amyl Alcohol	ug/L	ND	ND		30	
tert-Amylmethyl ether	ug/L	ND	ND		30	

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**QUALITY CONTROL DATA**

Project: STEADY SIMMONS 18856/55293  
Pace Project No.: 92358506

SAMPLE DUPLICATE: 2119449

Parameter	Units	92358506029 Result	Dup Result	RPD	Max RPD	Qualifiers
tert-Butyl Alcohol	ug/L	ND	ND		30	
tert-Butyl Formate	ug/L	ND	ND		30	
Toluene	ug/L	ND	ND		30	
Xylene (Total)	ug/L	ND	ND		30	
1,2-Dichloroethane-d4 (S)	%	95	100	5		
4-Bromofluorobenzene (S)	%	96	99	2		
Toluene-d8 (S)	%	101	100	1		

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### QUALITY CONTROL DATA

Project: STEADY SIMMONS 18856/55293  
Pace Project No.: 92358506

QC Batch: 382159 Analysis Method: EPA 8260  
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV SC  
Associated Lab Samples: 92358506026, 92358506027

METHOD BLANK: 2117838 Matrix: Water  
Associated Lab Samples: 92358506026, 92358506027

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	5.0	1.8	10/12/17 16:47	
3,3-Dimethyl-1-Butanol	ug/L	ND	100	32.1	10/12/17 16:47	
Benzene	ug/L	ND	5.0	1.7	10/12/17 16:47	
Diisopropyl ether	ug/L	ND	5.0	1.7	10/12/17 16:47	
Ethanol	ug/L	ND	200	131	10/12/17 16:47	
Ethyl-tert-butyl ether	ug/L	ND	10.0	3.6	10/12/17 16:47	
Ethylbenzene	ug/L	ND	5.0	1.6	10/12/17 16:47	
m&p-Xylene	ug/L	ND	10.0	3.1	10/12/17 16:47	
Methyl-tert-butyl ether	ug/L	ND	5.0	1.7	10/12/17 16:47	
Naphthalene	ug/L	ND	5.0	2.0	10/12/17 16:47	
o-Xylene	ug/L	ND	5.0	1.6	10/12/17 16:47	
tert-Amyl Alcohol	ug/L	ND	100	76.8	10/12/17 16:47	
tert-Amyl methyl ether	ug/L	ND	10.0	3.4	10/12/17 16:47	
tert-Butyl Alcohol	ug/L	ND	100	57.7	10/12/17 16:47	
tert-Butyl Formate	ug/L	ND	50.0	7.3	10/12/17 16:47	
Toluene	ug/L	ND	5.0	1.6	10/12/17 16:47	
Xylene (Total)	ug/L	ND	5.0	5.0	10/12/17 16:47	
1,2-Dichloroethane-d4 (S)	%	93	70-130		10/12/17 16:47	
4-Bromofluorobenzene (S)	%	96	70-130		10/12/17 16:47	
Toluene-d8 (S)	%	104	70-130		10/12/17 16:47	

LABORATORY CONTROL SAMPLE: 2117839

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	50	44.9	90	70-130	
3,3-Dimethyl-1-Butanol	ug/L	1000	965	96	70-130	
Benzene	ug/L	50	50.2	100	70-130	
Diisopropyl ether	ug/L	50	49.2	98	70-130	
Ethanol	ug/L	2000	2000	100	70-130	
Ethyl-tert-butyl ether	ug/L	100	96.4	96	70-130	
Ethylbenzene	ug/L	50	46.1	92	70-130	
m&p-Xylene	ug/L	100	90.6	91	70-130	
Methyl-tert-butyl ether	ug/L	50	47.5	95	70-130	
Naphthalene	ug/L	50	50.5	101	70-130	
o-Xylene	ug/L	50	46.7	93	70-130	
tert-Amyl Alcohol	ug/L	1000	932	93	70-130	
tert-Amyl methyl ether	ug/L	100	92.3	92	70-130	
tert-Butyl Alcohol	ug/L	500	461	92	70-130	
tert-Butyl Formate	ug/L	400	329	82	70-130	
Toluene	ug/L	50	46.3	93	70-130	

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**QUALITY CONTROL DATA**

Project: STEADY SIMMONS 18856/55293

Pace Project No.: 92358506

LABORATORY CONTROL SAMPLE: 2117839

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Xylene (Total)	ug/L	150	137	92	70-130	
1,2-Dichloroethane-d4 (S)	%			93	70-130	
4-Bromofluorobenzene (S)	%			96	70-130	
Toluene-d8 (S)	%			101	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2117840 2117841

Parameter	Units	2117840		2117841		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92358186012 Result	MS Spike Conc.	MSD Spike Conc.	MS Result						
1,2-Dichloroethane	ug/L	ND	200	200	197	189	97	93	70-130	4	30
3,3-Dimethyl-1-Butanol	ug/L	ND	4000	4000	3360	3110	84	78	70-130	8	30
Benzene	ug/L	901	200	200	1190	1190	145	142	70-130	0	30 M1
Diisopropyl ether	ug/L	30.8J	200	200	234	229	102	99	70-130	2	30
Ethanol	ug/L	ND	8000	8000	7970	9010	100	113	70-130	12	30
Ethyl-tert-butyl ether	ug/L	ND	400	400	391	380	98	95	70-130	3	30
Ethylbenzene	ug/L	83.9	200	200	294	287	105	101	70-130	2	30
m&p-Xylene	ug/L	1820	400	400	2310	2310	121	122	70-130	0	30
Methyl-tert-butyl ether	ug/L	62.0	200	200	285	279	111	108	70-130	2	30
Naphthalene	ug/L	227	200	200	443	457	108	115	70-130	3	30
o-Xylene	ug/L	719	200	200	950	961	115	121	70-130	1	30
tert-Amyl Alcohol	ug/L	ND	4000	4000	3870	4110	83	89	70-130	6	30
tert-Amyl(methyl) ether	ug/L	ND	400	400	372	368	93	92	70-130	1	30
tert-Butyl Alcohol	ug/L	ND	2000	2000	2480	2680	107	117	70-130	8	30
tert-Butyl Formate	ug/L	ND	1600	1600	736	731	46	46	70-130	1	30 M1,P5
Toluene	ug/L	140	200	200	357	355	108	108	70-130	0	30
1,2-Dichloroethane-d4 (S)	%						93	94	70-130		
4-Bromofluorobenzene (S)	%						96	97	70-130		
Toluene-d8 (S)	%						103	103	70-130		

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**REPORT OF LABORATORY ANALYSIS**

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### QUALITY CONTROL DATA

Project: STEADY SIMMONS 18856/55293  
Pace Project No.: 92358506

QC Batch: 382188 Analysis Method: EPA 8260  
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV SC  
Associated Lab Samples: 92358506003, 92358506004, 92358506005, 92358506006, 92358506007, 92358506008, 92358506009,  
92358506011, 92358506013, 92358506014, 92358506015, 92358506016, 92358506017

METHOD BLANK: 2117958 Matrix: Water  
Associated Lab Samples: 92358506003, 92358506004, 92358506005, 92358506006, 92358506007, 92358506008, 92358506009,  
92358506011, 92358506013, 92358506014, 92358506015, 92358506016, 92358506017

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	5.0	1.8	10/13/17 05:10	
3,3-Dimethyl-1-Butanol	ug/L	ND	100	32.1	10/13/17 05:10	
Benzene	ug/L	ND	5.0	1.7	10/13/17 05:10	
Diisopropyl ether	ug/L	ND	5.0	1.7	10/13/17 05:10	
Ethanol	ug/L	ND	200	131	10/13/17 05:10	
Ethyl-tert-butyl ether	ug/L	ND	10.0	3.6	10/13/17 05:10	
Ethylbenzene	ug/L	ND	5.0	1.6	10/13/17 05:10	
m&p-Xylene	ug/L	ND	10.0	3.1	10/13/17 05:10	
Methyl-tert-butyl ether	ug/L	ND	5.0	1.7	10/13/17 05:10	
Naphthalene	ug/L	ND	5.0	2.0	10/13/17 05:10	
o-Xylene	ug/L	ND	5.0	1.6	10/13/17 05:10	
tert-Amyl Alcohol	ug/L	ND	100	76.8	10/13/17 05:10	
tert-Amylmethyl ether	ug/L	ND	10.0	3.4	10/13/17 05:10	
tert-Butyl Alcohol	ug/L	ND	100	57.7	10/13/17 05:10	
tert-Butyl Formate	ug/L	ND	50.0	7.3	10/13/17 05:10	
Toluene	ug/L	ND	5.0	1.6	10/13/17 05:10	
Xylene (Total)	ug/L	ND	5.0	5.0	10/13/17 05:10	
1,2-Dichloroethane-d4 (S)	%	89	70-130		10/13/17 05:10	
4-Bromofluorobenzene (S)	%	98	70-130		10/13/17 05:10	
Toluene-d8 (S)	%	109	70-130		10/13/17 05:10	

LABORATORY CONTROL SAMPLE: 2117959

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	50	42.9	86	70-130	
3,3-Dimethyl-1-Butanol	ug/L	1000	933	93	70-130	
Benzene	ug/L	50	48.7	97	70-130	
Diisopropyl ether	ug/L	50	49.0	98	70-130	
Ethanol	ug/L	2000	1970	99	70-130	
Ethyl-tert-butyl ether	ug/L	100	94.8	95	70-130	
Ethylbenzene	ug/L	50	44.8	90	70-130	
m&p-Xylene	ug/L	100	86.7	87	70-130	
Methyl-tert-butyl ether	ug/L	50	48.8	98	70-130	
Naphthalene	ug/L	50	50.3	101	70-130	
o-Xylene	ug/L	50	45.0	90	70-130	
tert-Amyl Alcohol	ug/L	1000	904	90	70-130	
tert-Amylmethyl ether	ug/L	100	92.7	93	70-130	
tert-Butyl Alcohol	ug/L	500	450	90	70-130	

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QUALITY CONTROL DATA

Project: STEADY SIMMONS 18856/55293  
Pace Project No.: 92358506

LABORATORY CONTROL SAMPLE: 2117959

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
tert-Butyl Formate	ug/L	400	313	78	70-130	
Toluene	ug/L	50	45.4	91	70-130	
Xylene (Total)	ug/L	150	132	88	70-130	
1,2-Dichloroethane-d4 (S)	%			88	70-130	
4-Bromofluorobenzene (S)	%			95	70-130	
Toluene-d8 (S)	%			98	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2118737 2118738

Parameter	Units	92358287005		MSD		MS		MSD		% Rec Limits	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec				
1,2-Dichloroethane	ug/L	ND	20	20	18.0	17.6	90	88	70-130	2	30	
3,3-Dimethyl-1-Butanol	ug/L	ND	400	400	417	378	104	94	70-130	10	30	
Benzene	ug/L	ND	20	20	20.8	21.9	104	110	70-130	5	30	
Diisopropyl ether	ug/L	ND	20	20	19.3	19.8	96	99	70-130	3	30	
Ethanol	ug/L	ND	800	800	1130	988	142	124	70-130	14	30 M1	
Ethyl-tert-butyl ether	ug/L	ND	40	40	37.5	37.2	94	93	70-130	1	30	
Ethylbenzene	ug/L	ND	20	20	19.1	20.3	96	101	70-130	6	30	
m&p-Xylene	ug/L	ND	40	40	37.1	39.9	93	100	70-130	7	30	
Methyl-tert-butyl ether	ug/L	ND	20	20	19.3	19.4	96	97	70-130	0	30	
Naphthalene	ug/L	ND	20	20	22.3	21.1	111	105	70-130	6	30	
o-Xylene	ug/L	ND	20	20	18.4	20.0	92	100	70-130	8	30	
tert-Amyl Alcohol	ug/L	ND	400	400	385	338	96	84	70-130	13	30	
tert-Amylmethyl ether	ug/L	ND	40	40	35.1	35.9	88	90	70-130	2	30	
tert-Butyl Alcohol	ug/L	ND	200	200	214	189	107	94	70-130	13	30	
tert-Butyl Formate	ug/L	ND	160	160	127	121	80	76	70-130	5	30	
Toluene	ug/L	ND	20	20	19.7	20.2	99	101	70-130	3	30	
1,2-Dichloroethane-d4 (S)	%						90	93	70-130			
4-Bromofluorobenzene (S)	%						94	97	70-130			
Toluene-d8 (S)	%						97	100	70-130			

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### QUALITY CONTROL DATA

Project: STEADY SIMMONS 18856/55293  
Pace Project No.: 92358506

QC Batch: 382386 Analysis Method: EPA 8260  
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV SC  
Associated Lab Samples: 92358506001, 92358506002, 92358506012

METHOD BLANK: 2119179 Matrix: Water  
Associated Lab Samples: 92358506001, 92358506002, 92358506012

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	5.0	1.8	10/13/17 17:37	
3,3-Dimethyl-1-Butanol	ug/L	ND	100	32.1	10/13/17 17:37	
Benzene	ug/L	ND	5.0	1.7	10/13/17 17:37	
Diisopropyl ether	ug/L	ND	5.0	1.7	10/13/17 17:37	
Ethanol	ug/L	ND	200	131	10/13/17 17:37	
Ethyl-tert-butyl ether	ug/L	ND	10.0	3.6	10/13/17 17:37	
Ethylbenzene	ug/L	ND	5.0	1.6	10/13/17 17:37	
m&p-Xylene	ug/L	ND	10.0	3.1	10/13/17 17:37	
Methyl-tert-butyl ether	ug/L	ND	5.0	1.7	10/13/17 17:37	
Naphthalene	ug/L	ND	5.0	2.0	10/13/17 17:37	
o-Xylene	ug/L	ND	5.0	1.6	10/13/17 17:37	
tert-Amyl Alcohol	ug/L	ND	100	76.8	10/13/17 17:37	
tert-Amylmethyl ether	ug/L	ND	10.0	3.4	10/13/17 17:37	
tert-Butyl Alcohol	ug/L	ND	100	57.7	10/13/17 17:37	
tert-Butyl Formate	ug/L	ND	50.0	7.3	10/13/17 17:37	
Toluene	ug/L	ND	5.0	1.6	10/13/17 17:37	
Xylene (Total)	ug/L	ND	5.0	5.0	10/13/17 17:37	
1,2-Dichloroethane-d4 (S)	%	90	70-130		10/13/17 17:37	
4-Bromofluorobenzene (S)	%	93	70-130		10/13/17 17:37	
Toluene-d8 (S)	%	108	70-130		10/13/17 17:37	

LABORATORY CONTROL SAMPLE: 2119180

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	50	42.7	85	70-130	
3,3-Dimethyl-1-Butanol	ug/L	1000	903	90	70-130	
Benzene	ug/L	50	47.4	95	70-130	
Diisopropyl ether	ug/L	50	47.4	95	70-130	
Ethanol	ug/L	2000	1710	86	70-130	
Ethyl-tert-butyl ether	ug/L	100	91.5	92	70-130	
Ethylbenzene	ug/L	50	44.3	89	70-130	
m&p-Xylene	ug/L	100	86.8	87	70-130	
Methyl-tert-butyl ether	ug/L	50	47.3	95	70-130	
Naphthalene	ug/L	50	51.7	103	70-130	
o-Xylene	ug/L	50	44.5	89	70-130	
tert-Amyl Alcohol	ug/L	1000	850	85	70-130	
tert-Amylmethyl ether	ug/L	100	86.3	86	70-130	
tert-Butyl Alcohol	ug/L	500	405	81	70-130	
tert-Butyl Formate	ug/L	400	316	79	70-130	
Toluene	ug/L	50	43.5	87	70-130	

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### QUALITY CONTROL DATA

Project: STEADY SIMMONS 18856/55293  
Pace Project No.: 92358506

LABORATORY CONTROL SAMPLE: 2119180

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Xylene (Total)	ug/L	150	131	88	70-130	
1,2-Dichloroethane-d4 (S)	%			87	70-130	
4-Bromofluorobenzene (S)	%			95	70-130	
Toluene-d8 (S)	%			96	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2119181 2119182

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92358506002 Result	Spike Conc.	Spike Conc.	MS Result						
1,2-Dichloroethane	ug/L	ND	400	400	317	351	79	88	70-130	10	30
3,3-Dimethyl-1-Butanol	ug/L	ND	8000	8000	5580	6190	69	77	70-130	11	30 M1
Benzene	ug/L	346	400	400	701	797	89	113	70-130	13	30
Diisopropyl ether	ug/L	ND	400	400	344	396	86	99	70-130	14	30
Ethanol	ug/L	ND	16000	16000	11500	15300	72	96	70-130	29	30
Ethyl-tert-butyl ether	ug/L	ND	800	800	653	743	82	93	70-130	13	30
Ethylbenzene	ug/L	658	400	400	1020	1040	90	96	70-130	2	30
m&p-Xylene	ug/L	2440	800	800	3180	3270	91	103	70-130	3	30
Methyl-tert-butyl ether	ug/L	ND	400	400	333	379	82	93	70-130	13	30
Naphthalene	ug/L	238	400	400	589	641	88	101	70-130	8	30
o-Xylene	ug/L	1440	400	400	1830	1880	98	111	70-130	3	30
tert-Amyl Alcohol	ug/L	ND	8000	8000	4920	5880	61	74	70-130	18	30 M1
tert-Amylmethyl ether	ug/L	ND	800	800	609	715	76	89	70-130	16	30
tert-Butyl Alcohol	ug/L	ND	4000	4000	2870	3340	72	83	70-130	15	30
tert-Butyl Formate	ug/L	ND	3200	3200	1970	2140	61	67	70-130	8	30 M1, P5
Toluene	ug/L	2990	400	400	3200	3340	51	88	70-130	5	30 M1
1,2-Dichloroethane-d4 (S)	%							93	70-130		
4-Bromofluorobenzene (S)	%							97	70-130		
Toluene-d8 (S)	%							98	102	70-130	

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**QUALITY CONTROL DATA**

Project: STEADY SIMMONS 18856/55293  
Pace Project No.: 92358506

QC Batch: 382622 Analysis Method: EPA 8260  
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV SC  
Associated Lab Samples: 92358506010

METHOD BLANK: 2120400 Matrix: Water  
Associated Lab Samples: 92358506010

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	5.0	1.8	10/17/17 02:20	
3,3-Dimethyl-1-Butanol	ug/L	ND	100	32.1	10/17/17 02:20	
Benzene	ug/L	ND	5.0	1.7	10/17/17 02:20	
Diisopropyl ether	ug/L	ND	5.0	1.7	10/17/17 02:20	
Ethanol	ug/L	ND	200	131	10/17/17 02:20	
Ethyl-tert-butyl ether	ug/L	ND	10.0	3.6	10/17/17 02:20	
Ethylbenzene	ug/L	ND	5.0	1.6	10/17/17 02:20	
m&p-Xylene	ug/L	ND	10.0	3.1	10/17/17 02:20	
Methyl-tert-butyl ether	ug/L	ND	5.0	1.7	10/17/17 02:20	
Naphthalene	ug/L	ND	5.0	2.0	10/17/17 02:20	
o-Xylene	ug/L	ND	5.0	1.6	10/17/17 02:20	
tert-Amyl Alcohol	ug/L	ND	100	76.8	10/17/17 02:20	
tert-Amylmethyl ether	ug/L	ND	10.0	3.4	10/17/17 02:20	
tert-Butyl Alcohol	ug/L	ND	100	57.7	10/17/17 02:20	
tert-Butyl Formate	ug/L	ND	50.0	7.3	10/17/17 02:20	
Toluene	ug/L	ND	5.0	1.6	10/17/17 02:20	
Xylene (Total)	ug/L	ND	5.0	5.0	10/17/17 02:20	
1,2-Dichloroethane-d4 (S)	%	90	70-130		10/17/17 02:20	
4-Bromofluorobenzene (S)	%	95	70-130		10/17/17 02:20	
Toluene-d8 (S)	%	107	70-130		10/17/17 02:20	

LABORATORY CONTROL SAMPLE: 2120401

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	50	43.7	87	70-130	
3,3-Dimethyl-1-Butanol	ug/L	1000	1020	102	70-130	
Benzene	ug/L	50	49.7	99	70-130	
Diisopropyl ether	ug/L	50	50.5	101	70-130	
Ethanol	ug/L	2000	2150	107	70-130	
Ethyl-tert-butyl ether	ug/L	100	96.6	97	70-130	
Ethylbenzene	ug/L	50	43.1	86	70-130	
m&p-Xylene	ug/L	100	82.7	83	70-130	
Methyl-tert-butyl ether	ug/L	50	49.8	100	70-130	
Naphthalene	ug/L	50	47.4	95	70-130	
o-Xylene	ug/L	50	43.6	87	70-130	
tert-Amyl Alcohol	ug/L	1000	1000	100	70-130	
tert-Amylmethyl ether	ug/L	100	92.4	92	70-130	
tert-Butyl Alcohol	ug/L	500	530	106	70-130	
tert-Butyl Formate	ug/L	400	312	78	70-130	
Toluene	ug/L	50	44.8	90	70-130	

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### QUALITY CONTROL DATA

Project: STEADY SIMMONS 18856/55293  
Pace Project No.: 92358506

LABORATORY CONTROL SAMPLE: 2120401

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Xylene (Total)	ug/L	150	126	84	70-130	
1,2-Dichloroethane-d4 (S)	%			94	70-130	
4-Bromofluorobenzene (S)	%			95	70-130	
Toluene-d8 (S)	%			99	70-130	

MATRIX SPIKE SAMPLE: 2120402

Parameter	Units	92358747006 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	60.4J	400	438	94	70-130	
3,3-Dimethyl-1-Butanol	ug/L	ND	8000	8860	111	70-130	
Benzene	ug/L	2160	400	2620	116	70-130	
Diisopropyl ether	ug/L	ND	400	426	106	70-130	
Ethanol	ug/L	ND	16000	24500	153	70-130 M1	
Ethyl-tert-butyl ether	ug/L	ND	800	809	101	70-130	
Ethylbenzene	ug/L	481	400	879	99	70-130	
m&p-Xylene	ug/L	1180	800	1960	97	70-130	
Methyl-tert-butyl ether	ug/L	65.7J	400	509	111	70-130	
Naphthalene	ug/L	110	400	578	117	70-130	
o-Xylene	ug/L	594	400	1010	104	70-130	
tert-Amyl Alcohol	ug/L	3910	8000	13000	113	70-130	
tert-Amylmethyl ether	ug/L	ND	800	778	97	70-130	
tert-Butyl Alcohol	ug/L	ND	4000	4820	121	70-130	
tert-Butyl Formate	ug/L	ND	3200	2330	73	70-130 P5	
Toluene	ug/L	3000	400	3240	59	70-130 M1	
1,2-Dichloroethane-d4 (S)	%				91	70-130	
4-Bromofluorobenzene (S)	%				95	70-130	
Toluene-d8 (S)	%				100	70-130	

SAMPLE DUPLICATE: 2120403

Parameter	Units	92358747003 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2-Dichloroethane	ug/L	64.3	63.4	1	30	
3,3-Dimethyl-1-Butanol	ug/L	ND	ND		30	
Benzene	ug/L	1340	1340	0	30	
Diisopropyl ether	ug/L	ND	ND		30	
Ethanol	ug/L	ND	ND		30	
Ethyl-tert-butyl ether	ug/L	ND	ND		30	
Ethylbenzene	ug/L	173	169	2	30	
m&p-Xylene	ug/L	595	599	1	30	
Methyl-tert-butyl ether	ug/L	93.4	93.8	0	30	
Naphthalene	ug/L	41.3J	40.5J		30	
o-Xylene	ug/L	366	359	2	30	
tert-Amyl Alcohol	ug/L	3550	4150	16	30	
tert-Amylmethyl ether	ug/L	ND	ND		30	

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**QUALITY CONTROL DATA**

Project: STEADY SIMMONS 18856/55293  
Pace Project No.: 92358506

SAMPLE DUPLICATE: 2120403

Parameter	Units	92358747003 Result	Dup Result	RPD	Max RPD	Qualifiers
tert-Butyl Alcohol	ug/L	ND	ND		30	
tert-Butyl Formate	ug/L	ND	ND		30	
Toluene	ug/L	1360	1350	1	30	
Xylene (Total)	ug/L	961	958	0	30	
1,2-Dichloroethane-d4 (S)	%	86	88	2		
4-Bromofluorobenzene (S)	%	93	93	1		
Toluene-d8 (S)	%	103	105	2		

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**REPORT OF LABORATORY ANALYSIS**

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**QUALITY CONTROL DATA**

Project: STEADY SIMMONS 18856/55293  
Pace Project No.: 92358506

QC Batch: 382623 Analysis Method: EPA 8260  
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV SC  
Associated Lab Samples: 92358506018, 92358506019, 92358506020, 92358506021, 92358506022, 92358506023, 92358506024, 92358506025

METHOD BLANK: 2120404 Matrix: Water  
Associated Lab Samples: 92358506018, 92358506019, 92358506020, 92358506021, 92358506022, 92358506023, 92358506024, 92358506025

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	5.0	1.8	10/17/17 04:00	
3,3-Dimethyl-1-Butanol	ug/L	ND	100	32.1	10/17/17 04:00	
Benzene	ug/L	ND	5.0	1.7	10/17/17 04:00	
Diisopropyl ether	ug/L	ND	5.0	1.7	10/17/17 04:00	
Ethanol	ug/L	ND	200	131	10/17/17 04:00	
Ethyl-tert-butyl ether	ug/L	ND	10.0	3.6	10/17/17 04:00	
Ethylbenzene	ug/L	ND	5.0	1.6	10/17/17 04:00	
m&p-Xylene	ug/L	ND	10.0	3.1	10/17/17 04:00	
Methyl-tert-butyl ether	ug/L	ND	5.0	1.7	10/17/17 04:00	
Naphthalene	ug/L	ND	5.0	2.0	10/17/17 04:00	
o-Xylene	ug/L	ND	5.0	1.6	10/17/17 04:00	
tert-Amyl Alcohol	ug/L	ND	100	76.8	10/17/17 04:00	
tert-Amylmethyl ether	ug/L	ND	10.0	3.4	10/17/17 04:00	
tert-Butyl Alcohol	ug/L	ND	100	57.7	10/17/17 04:00	
tert-Butyl Formate	ug/L	ND	50.0	7.3	10/17/17 04:00	
Toluene	ug/L	ND	5.0	1.6	10/17/17 04:00	
Xylene (Total)	ug/L	ND	5.0	5.0	10/17/17 04:00	
1,2-Dichloroethane-d4 (S)	%	98	70-130		10/17/17 04:00	
4-Bromofluorobenzene (S)	%	97	70-130		10/17/17 04:00	
Toluene-d8 (S)	%	102	70-130		10/17/17 04:00	

LABORATORY CONTROL SAMPLE: 2120405

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	50	45.1	90	70-130	
3,3-Dimethyl-1-Butanol	ug/L	1000	1100	110	70-130	
Benzene	ug/L	50	46.5	93	70-130	
Diisopropyl ether	ug/L	50	44.4	89	70-130	
Ethanol	ug/L	2000	2120	106	70-130	
Ethyl-tert-butyl ether	ug/L	100	91.2	91	70-130	
Ethylbenzene	ug/L	50	47.4	95	70-130	
m&p-Xylene	ug/L	100	94.9	95	70-130	
Methyl-tert-butyl ether	ug/L	50	47.2	94	70-130	
Naphthalene	ug/L	50	54.2	108	70-130	
o-Xylene	ug/L	50	49.4	99	70-130	
tert-Amyl Alcohol	ug/L	1000	1080	108	70-130	
tert-Amylmethyl ether	ug/L	100	97.7	98	70-130	
tert-Butyl Alcohol	ug/L	500	504	101	70-130	

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**REPORT OF LABORATORY ANALYSIS**

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### QUALITY CONTROL DATA

Project: STEADY SIMMONS 18856/55293  
Pace Project No.: 92358506

LABORATORY CONTROL SAMPLE: 2120405

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
tert-Butyl Formate	ug/L	400	382	95	70-130	
Toluene	ug/L	50	47.9	96	70-130	
Xylene (Total)	ug/L	150	144	96	70-130	
1,2-Dichloroethane-d4 (S)	%			97	70-130	
4-Bromofluorobenzene (S)	%			100	70-130	
Toluene-d8 (S)	%			101	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2120406 2120407

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92358690004 Result	Conc.	Conc.	Result						
1,2-Dichloroethane	ug/L	ND	20	20	16.8	18.2	84	91	70-130	8	30
3,3-Dimethyl-1-Butanol	ug/L	ND	400	400	382	442	96	110	70-130	14	30
Benzene	ug/L	ND	20	20	18.8	21.8	94	109	70-130	15	30
Diisopropyl ether	ug/L	ND	20	20	18.1	20.4	91	102	70-130	12	30
Ethanol	ug/L	ND	800	800	595	954	74	119	70-130	46	30 R1
Ethyl-tert-butyl ether	ug/L	ND	40	40	35.9	40.2	90	101	70-130	11	30
Ethylbenzene	ug/L	ND	20	20	18.3	21.8	92	109	70-130	17	30
m&p-Xylene	ug/L	ND	40	40	36.5	43.2	91	108	70-130	17	30
Methyl-tert-butyl ether	ug/L	ND	20	20	18.3	21.0	92	105	70-130	14	30
Naphthalene	ug/L	ND	20	20	19.5	22.4	97	112	70-130	14	30
o-Xylene	ug/L	ND	20	20	19.1	22.0	96	110	70-130	14	30
tert-Amyl Alcohol	ug/L	ND	400	400	380	412	95	103	70-130	8	30
tert-Amylmethyl ether	ug/L	ND	40	40	35.5	40.5	89	101	70-130	13	30
tert-Butyl Alcohol	ug/L	ND	200	200	263	281	131	140	70-130	7	30 M1
tert-Butyl Formate	ug/L	ND	160	160	ND	ND	0	0	70-130	30	M1,P5
Toluene	ug/L	ND	20	20	19.2	21.8	96	109	70-130	12	30
1,2-Dichloroethane-d4 (S)	%						90	88	70-130		
4-Bromofluorobenzene (S)	%						100	99	70-130		
Toluene-d8 (S)	%						100	100	70-130		

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: STEADY SIMMONS 18858/55293  
Pace Project No.: 92358506

QC Batch: 381803 Analysis Method: EPA 8011  
QC Batch Method: EPA 8011 Analysis Description: GCS 8011 EDB DBCP  
Associated Lab Samples: 92358506001, 92358506002, 92358506003, 92358506004, 92358506005, 92358506006, 92358506007, 92358506008

METHOD BLANK: 2115817 Matrix: Water  
Associated Lab Samples: 92358506001, 92358506002, 92358506003, 92358506004, 92358506005, 92358506006, 92358506007, 92358506008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	0.019	0.019	10/11/17 19:10	
1-Chloro-2-bromopropane (S)	%	106	60-140		10/11/17 19:10	

LABORATORY CONTROL SAMPLE & LCSD: 2115818 2115819

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	.25	0.29	0.29	119	119	60-140	1	20	
1-Chloro-2-bromopropane (S)	%				125	123	60-140			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2115820 2115821

Parameter	Units	92358287010 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dibromoethane (EDB)	ug/L	ND	.24	.24	0.20	0.20	82	82	60-140	0	20	
1-Chloro-2-bromopropane (S)	%						91	91	60-140			

SAMPLE DUPLICATE: 2115822

Parameter	Units	92358506007 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	ND		20	
1-Chloro-2-bromopropane (S)	%	111	112	2		

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**QUALITY CONTROL DATA**

Project: STEADY SIMMONS 18856/55293  
Pace Project No.: 92358506

QC Batch: 382016 Analysis Method: EPA 8011  
QC Batch Method: EPA 8011 Analysis Description: GCS 8011 EDB DBCP  
Associated Lab Samples: 92358506009, 92358506010, 92358506011, 92358506012, 92358506013, 92358506014, 92358506015,  
92358506016, 92358506017, 92358506018, 92358506019, 92358506020, 92358506021, 92358506022,  
92358506023, 92358506024, 92358506026, 92358506028, 92358506029

METHOD BLANK: 2116923 Matrix: Water  
Associated Lab Samples: 92358506009, 92358506010, 92358506011, 92358506012, 92358506013, 92358506014, 92358506015,  
92358506016, 92358506017, 92358506018, 92358506019, 92358506020, 92358506021, 92358506022,  
92358506023, 92358506024, 92358506026, 92358506028, 92358506029

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	0.020	0.020	10/12/17 16:38	
1-Chloro-2-bromopropane (S)	%	103	60-140		10/12/17 16:38	

LABORATORY CONTROL SAMPLE & LCSD: 2116924 2116925

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	% Rec	% Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	.25	0.18	0.24	71	96	60-140	30	20	R1
1-Chloro-2-bromopropane (S)	%				102	117	60-140			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2116926 2116927

Parameter	Units	92358506018 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	% Rec	% Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dibromoethane (EDB)	ug/L	ND	.25	.25	0.24	0.24	96	96	60-140	0	20	
1-Chloro-2-bromopropane (S)	%						108	107	60-140			

SAMPLE DUPLICATE: 2116928

Parameter	Units	92358506028 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	ND		20	
1-Chloro-2-bromopropane (S)	%	115	125	8		

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### QUALITY CONTROL DATA

Project: STEADY SIMMONS 18856/55293  
Pace Project No.: 92358506

QC Batch: 382487 Analysis Method: EPA 8011  
QC Batch Method: EPA 8011 Analysis Description: GCS 8011 EDB DBCP  
Associated Lab Samples: 92358506025

METHOD BLANK: 2119622 Matrix: Water  
Associated Lab Samples: 92358506025

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	0.019	0.019	10/16/17 20:10	
1-Chloro-2-bromopropane (S)	%	117	60-140		10/16/17 20:10	

LABORATORY CONTROL SAMPLE & LCSD: 2119623

Parameter	Units	2119640								Qualifiers
		Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	
1,2-Dibromoethane (EDB)	ug/L	.23	0.25	0.24	105	103	60-140	2	20	
1-Chloro-2-bromopropane (S)	%				115	110	60-140			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2119624 2119625

Parameter	Units	2119625										
		92358724003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dibromoethane (EDB)	ug/L	0.61	.25	.25	1.1	1.1	207	187	60-140	5	20	M1
1-Chloro-2-bromopropane (S)	%						144	136	60-140			S0

SAMPLE DUPLICATE: 2119626

Parameter	Units	92358728003				Max RPD	Qualifiers
		Result	Dup Result	RPD	RPD		
1,2-Dibromoethane (EDB)	ug/L	0.10	0.089	15	20		
1-Chloro-2-bromopropane (S)	%	142	135	3			

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## QUALIFIERS

Project: STEADY SIMMONS 18856/55293  
Pace Project No.: 92358506

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### DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.  
ND - Not Detected at or above adjusted reporting limit.  
TNTC - Too Numerous To Count  
J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.  
MDL - Adjusted Method Detection Limit.  
PQL - Practical Quantitation Limit.  
RL - Reporting Limit.  
S - Surrogate  
1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.  
Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.  
LCS(D) - Laboratory Control Sample (Duplicate)  
MS(D) - Matrix Spike (Duplicate)  
DUP - Sample Duplicate  
RPD - Relative Percent Difference  
NC - Not Calculable.  
SG - Silica Gel - Clean-Up  
U - Indicates the compound was analyzed for, but not detected.  
Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.  
A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.  
N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.  
Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.  
TNI - The NELAC Institute.

### LABORATORIES

PASI-C Pace Analytical Services - Charlotte

### ANALYTE QUALIFIERS

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.  
P5 The EPA or method required sample preservation degrades this compound, therefore acceptable recoveries may not be achieved in sample matrix spikes.  
R1 RPD value was outside control limits.  
S0 Surrogate recovery outside laboratory control limits.

## REPORT OF LABORATORY ANALYSIS

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**QUALITY CONTROL DATA CROSS REFERENCE TABLE**

Project: STEADY SIMMONS 18856/55293  
Pace Project No.: 92358506

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92358506001	MW-1R	EPA 8011	381803	EPA 8011	381887
92358506002	MW-2	EPA 8011	381803	EPA 8011	381887
92358506003	MW-3	EPA 8011	381803	EPA 8011	381887
92358506004	MW-4	EPA 8011	381803	EPA 8011	381887
92358506005	MW-5	EPA 8011	381803	EPA 8011	381887
92358506006	MW-6	EPA 8011	381803	EPA 8011	381887
92358506007	MW-7	EPA 8011	381803	EPA 8011	381887
92358506008	MW-8	EPA 8011	381803	EPA 8011	381887
92358506009	MW-9	EPA 8011	382016	EPA 8011	382133
92358506010	MW-10	EPA 8011	382016	EPA 8011	382133
92358506011	MW-11	EPA 8011	382016	EPA 8011	382133
92358506012	MW-12	EPA 8011	382016	EPA 8011	382133
92358506013	MW-13	EPA 8011	382016	EPA 8011	382133
92358506014	MW-14	EPA 8011	382016	EPA 8011	382133
92358506015	MW-16	EPA 8011	382016	EPA 8011	382133
92358506016	MW-17	EPA 8011	382016	EPA 8011	382133
92358506017	DW-1	EPA 8011	382016	EPA 8011	382133
92358506018	DW-2	EPA 8011	382016	EPA 8011	382133
92358506019	DW-3	EPA 8011	382016	EPA 8011	382133
92358506020	DW-4	EPA 8011	382016	EPA 8011	382133
92358506021	DW-6	EPA 8011	382016	EPA 8011	382133
92358506022	DW-7	EPA 8011	382016	EPA 8011	382133
92358506023	DW-8	EPA 8011	382016	EPA 8011	382133
92358506024	DUPLICATE 1	EPA 8011	382016	EPA 8011	382133
92358506025	DUPLICATE 2	EPA 8011	382487	EPA 8011	382528
92358506026	FIELD BLANK	EPA 8011	382016	EPA 8011	382133
92358506028	SW-1	EPA 8011	382016	EPA 8011	382133
92358506029	SW-2	EPA 8011	382016	EPA 8011	382133
92358506028	SW-1	EPA 8260	382422		
92358506029	SW-2	EPA 8260	382422		
92358506001	MW-1R	EPA 8260	382386		
92358506002	MW-2	EPA 8260	382386		
92358506003	MW-3	EPA 8260	382188		
92358506004	MW-4	EPA 8260	382188		
92358506005	MW-5	EPA 8260	382188		
92358506006	MW-6	EPA 8260	382188		
92358506007	MW-7	EPA 8260	382188		
92358506008	MW-8	EPA 8260	382188		
92358506009	MW-9	EPA 8260	382188		
92358506010	MW-10	EPA 8260	382622		
92358506011	MW-11	EPA 8260	382188		
92358506012	MW-12	EPA 8260	382386		
92358506013	MW-13	EPA 8260	382188		
92358506014	MW-14	EPA 8260	382188		

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**QUALITY CONTROL DATA CROSS REFERENCE TABLE**

Project: STEADY SIMMONS 18858/55293  
Pace Project No.: 92358506

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92358506015	MW-16	EPA 8260	382188		
92358506016	MW-17	EPA 8260	382188		
92358506017	DW-1	EPA 8260	382188		
92358506018	DW-2	EPA 8260	382623		
92358506019	DW-3	EPA 8260	382623		
92358506020	DW-4	EPA 8260	382623		
92358506021	DW-6	EPA 8260	382623		
92358506022	DW-7	EPA 8260	382623		
92358506023	DW-8	EPA 8260	382623		
92358506024	DUPLICATE 1	EPA 8260	382623		
92358506025	DUPLICATE 2	EPA 8260	382623		
92358506026	FIELD BLANK	EPA 8260	382159		
92358506027	TRIP BLANK	EPA 8260	382159		

**REPORT OF LABORATORY ANALYSIS**

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	Customer Name:	Document Revised: August 4, 2017
	Sample Condition (Upon Receipt/SCUA):	Page 1 of 1
	Document No.: F-CAR-05-033 Rev.04	Issuing Authority: Pico Quality Office

Laboratory receiving samples:  
 Asheville  Eden  Greenwood  Huntersville  Raleigh  Mechanicsville

Client Name: SCDHEC Project: **NO#: 92358506**  
 Contact:  Mail to  JUS  JUS  Other:  Client

Custody Seal Present?  Yes  No Seal Intact?  Yes  No  
 Date/Initial Person Issuing Custody Seal: 10/16/17

Presling Material:  Bubble Wrap  Bubble Bags  None  Other  
 Thermometer:  Yes  No  None  Yes  No  N/A  
 Correction Factor: 1.76 Temp. (°C): 35 Temp. should be above freezing for ETC  
 Samples out of temp. criteria. Samples in box, cooling process has begun

USDA Registered Soil?  No, water sample?  No  
 Did samples originate in a quarantine zone within the United States (CA, HI, or SC (check maps))?  Yes  No  
 Did samples originate from a foreign source (international, including Hawaii and Puerto Rico)?  Yes  No

Chain of Custody	Yes	No	Not Applicable	Comments/Discrepancy
Chain of Custody Present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Samples Arrived within Hold Time?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Shrink Hold Time Analyte (±7% for AP)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Blank Time Arrived Time Requested?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Sufficient Volume?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Correct Containers Used?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Seal Containers Used?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Containers Intact?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Unopened Analyte Samples Field #/Date?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Sample Labels Match ID#?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<i>No labels time on samples</i>
Includes Date/Time/ID/Analysis Method	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<i>W-T</i>
Integrates in VISA Mail (2-6pm)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Trap Blank Present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Trap Blank Custody Seals Present?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

Client Information/Restrictions: \_\_\_\_\_ Field Data Request?  Yes  No  
 Person Contacted: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Comments/Discrepancy: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Let # of sets contain: \_\_\_\_\_  
 Project Manager SCURF Reviewer: TC Date: 10/16/17  
 Project Manager SRF Reviewer: TC Date: 10/16/17

Note: whenever there is a discrepancy affecting North Carolina catchline samples, a copy of this form will be sent to the North Carolina DORM Certification Office (i.e. Out of State, In-State, or In-State, In-State).

**WO#: 92358506**

\*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.  
 \*\*Bottom half of box is to list number of bottles

**Project:** PH: RSC **Date:** 10/17/17  
**CLIENT:** 02-00MEC

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #
1	MP04-225 ml. Plastic, Unpreserved (RVA) (RVA)					
2	MP04-225 ml. Plastic, Unpreserved (RVA)					
3	MP04-225 ml. Plastic, Unpreserved (RVA)					
4	MP04-225 ml. Plastic, Unpreserved (RVA)					
5	MP04-225 ml. Plastic, Unpreserved (RVA)					
6	MP04-225 ml. Plastic, Unpreserved (RVA)					
7	MP04-225 ml. Plastic, Unpreserved (RVA)					
8	MP04-225 ml. Plastic, Unpreserved (RVA)					
9	MP04-225 ml. Plastic, Unpreserved (RVA)					
10	MP04-225 ml. Plastic, Unpreserved (RVA)					
11	MP04-225 ml. Plastic, Unpreserved (RVA)					
12	MP04-225 ml. Plastic, Unpreserved (RVA)					

**pH Adjustment Log for Preserved Samples**

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

	Document Name:	Document Number: August 4, 2017
	Sample Description: Upper Branch (SGL)	Page: 1 of 3
	Document No.: F-CD-03-03-00-02	Issuing Authority:
Project #		<b>WO#: 92358506</b>
*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.		PR: RMC
**Bottom half of box is to list number of bottles		Run Date: 10/17/17
<b>2</b>		CLIENT: 82-6208C

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #
1	MP02-020 (400 µl) (Preservative)					
2	MP02-020 (400 µl) (Preservative)					
3	MP02-020 (400 µl) (Preservative)					
4	MP02-020 (400 µl) (Preservative)					
5	MP02-020 (400 µl) (Preservative)					
6	MP02-020 (400 µl) (Preservative)					
7	MP02-020 (400 µl) (Preservative)					
8	MP02-020 (400 µl) (Preservative)					
9	MP02-020 (400 µl) (Preservative)					
10	MP02-020 (400 µl) (Preservative)					
11	MP02-020 (400 µl) (Preservative)					
12	MP02-020 (400 µl) (Preservative)					

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #







CHAIN-OF-CUSTODY / Analytical Request Document

Section A Required Client Information:		Section B Required Project Information:		Section C Detector Information:		Page 1 of 3 2195111	
Company: FLOWAC - UST	Project To: J. Bayant - UST	Client Name:	Company Name:	REGULATORY AGENCY	<input type="checkbox"/> NPDES <input type="checkbox"/> GROUND WATER <input type="checkbox"/> DRINKING WATER		
Address: 2500 9th Street	City To:	Address:	Address:	<input type="checkbox"/> LIST <input type="checkbox"/> RCRA <input type="checkbox"/> OTHER			
City: Columbia SC 29202	Purchase Order No.: 4600422513	Site Location:	Site Location:	STATE: SC	Jasper		
Requested Date (MM/YY): 02/20/12	Project Name: Sladey Simmons	Project Number: 47-50208 (A-55249)	Project #:				

ITEM #	SAMPLE ID (A-Z, 0-9, -)	MATRIX CODE (MUST BE UNIQUE)	DATE	TIME	COLLECTED	PRESERVATIVES	Requester Analysis Filtered (Y/N)		Pass Project No./ Lab ID.
							DATE	TIME	
1	mu-1E	WT G	10/12	13:10					odor
2	mu-2	WT G	10/12	13:26					odor
3	mu-3	WT G	10/14	14:04					No odor
4	mu-4	WT G	10/14	14:04					No odor
5	mu-5	WT G	10/14	14:04					No odor
6	mu-6	WT G	10/14	14:04					No odor
7	mu-7	WT G	10/14	14:04					No odor
8	mu-8	WT G	10/14	14:04					No odor
9	mu-9	WT G	10/14	14:04					No odor
10	mu-10	WT G	10/14	14:04					No odor
11	mu-11	WT G	10/14	14:04					No odor
12	mu-12	WT G	10/14	14:04					No odor

ADDITIONAL COMMENTS:	RELINQUISHED BY:	DATE:	ACCEPTED BY (AFFILIATION):	DATE:	TIME:	SAMPLE CONDITIONS:
	Jordan Flood	10/14	Jordan Flood	10/14	12:35	Y N X

ORIGINAL	SAMPLER NAME AND SIGNATURE: Jordan Flood	DATE Requested (MM/DD/YY): 10/9/12	Temp in °C	Received on for (Y/N)	Cooling Method Used (Y/N)	Storage Method (Y/N)
	Jordan Flood	10/9/12				

\*Original Holder By signing this form you are accepting Pace's NET 30 Any payment terms and agreeing to the charges of 1.5% per month for late payments for past due bills.



### CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant facts must be completed accurately.

<b>Section A</b> Requester Client Information		<b>Section B</b> Required Project Information		<b>Section C</b> Invoicing Information		Page: <u>2</u> of <u>3</u>
Company: <u>COHP - US</u>		Request To: <u>J. Bryant - US</u>		Address:		<u>2195112</u>
Address: <u>Columbia Street</u>		Copy To:		Company Name:		REGULATORY AGENCY
Request To: <u>Wentworth &amp; O'Brien</u>		Purchase Order No.: <u>4600422813</u>		Address:		<input type="checkbox"/> APDES <input type="checkbox"/> GROUND WATER <input type="checkbox"/> DRINKING WATER
Requester (See Form 1A)		Project Name: <u>Steady Stream</u>		Field Date:		<input type="checkbox"/> UST <input type="checkbox"/> MCHA <input type="checkbox"/> OTHER
		Project Number: <u>US-58-808 CA-55-417</u>		Site Location:		State: <u>SC</u> <u>Jasper</u>
				City:		

ITEM #	MATERIAL CODE	MATERIAL TYPE	DATE	TIME	COLLECTED		SAMPLE TEMP AT COLLECTION	PRESERVATIVES	ANALYSIS TESTS		REQUESTED ANALYSIS FILTERED (Y/N)	REMARKS / COMMENTS
					DATE	TIME			UNIT	UNIT		
1	MW-13	W	10/9/17	12:18			4					0255 8510
2	MW-14	W	10/9/17	12:26			2					
3	MW-15	W										
4	MW-16	W	10/9/17	12:18			6					No odor
5	MW-17	W		01:55			7					No odor
6	DW-1	W		11:44								No odor
7	DW-2	W		11:45								No odor
8	DW-3	W		11:50								No odor
9	DW-4	W	10/9/17	10:30			6					No odor
10	DW-5	W										No odor
11	DW-6	W	10/17/17	12:59			6					No odor
12	DW-7	W	10/17/17	12:59			6					No odor

ADDITIONAL COMMENTS	NO. OF CONTAINERS	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
		10/17	12:59	J. Bryant - Pace	10/17	12:59	N/A



**CHAIN-OF-CUSTODY / Analytical Request Document**  
The Chain-of-Custody is a LEGAL DOCUMENT. All relevant facts must be completed accurately.

<b>Section A</b> Required Client Information Company: <u>SLOREC - USF</u> Address: <u>3400 Gull Street</u> City: <u>San Jose, CA 95128</u> Phone: <u>408-281-2400</u> Fax: <u>408-281-2400</u> Requested Date (M/D/Y): <u>10/17/12</u>		<b>Section B</b> Required Project Information Project No: <u>J. Bryant USF</u> Copy No: _____ Address Order No.: <u>4000 U23513</u> Project Name: <u>Deady Simmons</u> Project Number: <u>USF - Springs - CA 5012</u>		<b>Section C</b> Analytical Information Abstract: _____ Company Name: _____ Address: _____ Point Name: _____ Point Phone: _____ Storage: _____ Date Rec'd: _____ Regulatory Agency: _____ NPDES <input type="checkbox"/> GROUND WATER <input type="checkbox"/> DRINKING WATER <input type="checkbox"/> USEPA <input checked="" type="checkbox"/> RCRA <input type="checkbox"/> OTHER <input type="checkbox"/> Site Location: <u>SL</u> State: <u>CA</u> Sample ID: <u>2195117</u>	
<b>Section D</b> Required Client Information Matrix Code: <u>10856</u> Matrix Code (see back of book): _____ Drinking Water: <input type="checkbox"/> DW Wastewater: <input type="checkbox"/> WW Wastewater: <input type="checkbox"/> WWT Product Substrate: <input type="checkbox"/> PS Air: <input type="checkbox"/> AIR Soil: <input type="checkbox"/> SOIL Other: <input type="checkbox"/> OT		Matrix Code (see back of book): _____ Matrix Type (choose DCCOPY): _____ Matrix Code: _____ Matrix Type: _____		Requested Analysis Filtered (Y/N)	
<b>COLLECTED</b> ANALYST: _____ DATE: _____ TIME: _____ SAMPLE TEMP AT COLLECTION: _____ PRESERVATIVES: _____		ANALYST: _____ DATE: _____ TIME: _____ SAMPLE TEMP AT COLLECTION: _____ PRESERVATIVES: _____		ANALYST: _____ DATE: _____ TIME: _____ SAMPLE TEMP AT COLLECTION: _____ PRESERVATIVES: _____	
SAMPLE ID (MUST BE UNIQUE) Sample ID: <u>0001</u> Sample ID: <u>0002</u> Sample ID: <u>0003</u> Sample ID: <u>0004</u> Sample ID: <u>0005</u> Sample ID: <u>0006</u> Sample ID: <u>0007</u> Sample ID: <u>0008</u> Sample ID: <u>0009</u> Sample ID: <u>0010</u> Sample ID: <u>0011</u> Sample ID: <u>0012</u> Sample ID: <u>0013</u> Sample ID: <u>0014</u> Sample ID: <u>0015</u> Sample ID: <u>0016</u> Sample ID: <u>0017</u> Sample ID: <u>0018</u> Sample ID: <u>0019</u> Sample ID: <u>0020</u>		ANALYST: _____ DATE: _____ TIME: _____ SAMPLE TEMP AT COLLECTION: _____ PRESERVATIVES: _____		ANALYST: _____ DATE: _____ TIME: _____ SAMPLE TEMP AT COLLECTION: _____ PRESERVATIVES: _____	
ADDITIONAL COMMENTS: _____ RELEASING BY / AFFILIATION: _____ DATE: _____ TIME: _____ ACCEPTED BY / AFFILIATION: _____ DATE: _____ TIME: _____ SAMPLE CONDITIONS: _____		ADDITIONAL COMMENTS: _____ RELEASING BY / AFFILIATION: _____ DATE: _____ TIME: _____ ACCEPTED BY / AFFILIATION: _____ DATE: _____ TIME: _____ SAMPLE CONDITIONS: _____		ADDITIONAL COMMENTS: _____ RELEASING BY / AFFILIATION: _____ DATE: _____ TIME: _____ ACCEPTED BY / AFFILIATION: _____ DATE: _____ TIME: _____ SAMPLE CONDITIONS: _____	
ORIGINAL		SAMPLER NAME AND SIGNATURE PRINT NAME OF SAMPLER: <u>Jordan Pineda</u> SIGNATURE OF SAMPLER: _____ DATE SIGNED (M/D/Y): <u>10/17/12</u>		TEMPERATURE: _____ PRESERVED BY: _____ COMPANY NAME (FBI): _____ ANALYST: _____	

October 18, 2017

Ashleigh Thrash  
SCHDEC  
2600 Bull St  
Columbia, SC 29201



RE: Project: STEADY SIMMONS WSW 18856/55294  
Pace Project No.: 92358491

Dear Ashleigh Thrash:

Enclosed are the analytical results for sample(s) received by the laboratory on October 10, 2017. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in cursive script, appearing to read "Trey Carter".

Trey Carter  
treycarter@pacelabs.com  
(704)875-9092  
Project Manager

Enclosures



**REPORT OF LABORATORY ANALYSIS**

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## CERTIFICATIONS

Project: STEADY SIMMONS WSW 18856/55294  
Pace Project No.: 92358491

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### Ormond Beach Certification IDs

8 East Tower Circle, Ormond Beach, FL 32174  
Alabama Certification #: 41320  
Connecticut Certification #: PH-0216  
Delaware Certification: FL NELAC Reciprocity  
Florida Certification #: E83079  
Georgia Certification #: 955  
Guam Certification: FL NELAC Reciprocity  
Hawaii Certification: FL NELAC Reciprocity  
Illinois Certification #: 200088  
Indiana Certification: FL NELAC Reciprocity  
Kansas Certification #: E-10383  
Louisiana Certification #: FL NELAC Reciprocity  
Louisiana Environmental Certificate #: 05007  
Maryland Certification: #346  
Michigan Certification #: 9911  
Mississippi Certification: FL NELAC Reciprocity  
Missouri Certification #: 236  
Montana Certification #: Cert 0074

Nebraska Certification: NE-OS-28-14  
Nevada Certification: FL NELAC Reciprocity  
New Jersey Certification #: FL022  
New York Certification #: 11608  
North Carolina Environmental Certificate #: 667  
North Carolina Certification #: 12710  
Oklahoma Certification #: D9947  
Pennsylvania Certification #: 68-00547  
Puerto Rico Certification #: FL01264  
South Carolina Certification: #96042001  
Tennessee Certification #: TN02974  
Texas Certification: FL NELAC Reciprocity  
US Virgin Islands Certification: FL NELAC Reciprocity  
Virginia Environmental Certification #: 460165  
Wyoming Certification: FL NELAC Reciprocity  
West Virginia Certification #: 9962C  
Wisconsin Certification #: 399079670  
Wyoming (EPA Region 8): FL NELAC Reciprocity

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### Charlotte Certification IDs

9800 Kincey Ave. Ste 100, Huntersville, NC 28078  
Louisiana/NELAP Certification # LA170028  
North Carolina Drinking Water Certification #: 37706  
North Carolina Field Services Certification #: 5342  
North Carolina Wastewater Certification #: 12

South Carolina Certification #: 99006001  
Florida/NELAP Certification #: E87627  
Kentucky UST Certification #: 84  
Virginia/VELAP Certification #: 460221

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## REPORT OF LABORATORY ANALYSIS

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### SAMPLE SUMMARY

Project: STEADY SIMMONS WSW 18856/55294  
Pace Project No.: 92358491

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92358491001	WSW-1	Water	10/09/17 13:30	10/10/17 06:07
92358491002	WSW-2	Water	10/09/17 13:35	10/10/17 06:07
92358491003	WSW-3	Water	10/09/17 13:40	10/10/17 06:07
92358491004	WSW-4	Water	10/09/17 13:40	10/10/17 06:07
92358491005	WSW-7	Water	10/09/17 13:30	10/10/17 06:07
92358491006	DUPLICATE	Water	10/09/17 13:30	10/10/17 06:07
92358491007	FIELD BLANK	Water	10/09/17 13:47	10/10/17 06:07
92358491008	TRIP BLANK	Water	10/09/17 13:47	10/10/17 06:07

### REPORT OF LABORATORY ANALYSIS

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**SAMPLE ANALYTE COUNT**

Project: STEADY SIMMONS WSW 18856/55294  
 Pace Project No.: 92358491

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92358491001	WSW-1	EPA 504.1	SEM	2	PASI-C
		EPA 524.2	JLR	10	PASI-O
		EPA 8260	GAW	11	PASI-C
92358491002	WSW-2	EPA 504.1	SEM	2	PASI-C
		EPA 524.2	JLR	10	PASI-O
		EPA 8260	GAW	11	PASI-C
92358491003	WSW-3	EPA 504.1	SEM	2	PASI-C
		EPA 524.2	JLR	10	PASI-O
		EPA 8260	GAW	11	PASI-C
92358491004	WSW-4	EPA 504.1	SEM	2	PASI-C
		EPA 524.2	JLR	10	PASI-O
		EPA 8260	GAW	11	PASI-C
92358491005	WSW-7	EPA 504.1	SEM	2	PASI-C
		EPA 524.2	JLR	10	PASI-O
		EPA 8260	GAW	11	PASI-C
92358491006	DUPLICATE	EPA 504.1	SEM	2	PASI-C
		EPA 524.2	JLR	10	PASI-O
		EPA 8260	GAW	11	PASI-C
92358491007	FIELD BLANK	EPA 504.1	SEM	2	PASI-C
		EPA 524.2	JLR	10	PASI-O
		EPA 8260	GAW	11	PASI-C
92358491008	TRIP BLANK	EPA 524.2	JLR	10	PASI-O
		EPA 8260	GAW	11	PASI-C

**REPORT OF LABORATORY ANALYSIS**

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### ANALYTICAL RESULTS

Project: STEADY SIMMONS WSW 18856/55294  
Pace Project No.: 92358491

Sample: WSW-1									
Lab ID: 92358491001									
Collected: 10/09/17 13:30 Received: 10/10/17 06:07 Matrix: Water									
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>504 GCS EDB and DBCP</b>									
Analytical Method: EPA 504.1 Preparation Method: EPA 504.1									
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	0.019	1	10/11/17 12:47	10/12/17 00:01	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	84	%	70-130		1	10/11/17 12:47	10/12/17 00:01	301-79-56	
<b>524.2 MSV</b>									
Analytical Method: EPA 524.2									
Benzene	ND	mg/L	0.00050	0.00025	1		10/16/17 14:44	71-43-2	
1,2-Dichloroethane	ND	mg/L	0.00050	0.00025	1		10/16/17 14:44	107-06-2	
Ethylbenzene	ND	mg/L	0.00050	0.00025	1		10/16/17 14:44	100-41-4	
Methyl-tert-butyl ether	ND	mg/L	0.00050	0.00025	1		10/16/17 14:44	1634-04-4	
Naphthalene	ND	mg/L	0.00050	0.00025	1		10/16/17 14:44	91-20-3	
Toluene	ND	mg/L	0.00050	0.00025	1		10/16/17 14:44	108-88-3	
Xylene (Total)	ND	mg/L	0.00050	0.00025	1		10/16/17 14:44	1330-20-7	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	91	%	70-130		1		10/16/17 14:44	460-00-4	
Toluene-d8 (S)	102	%	70-130		1		10/16/17 14:44	2037-26-5	
1,2-Dichloroethane-d4 (S)	122	%	70-130		1		10/16/17 14:44	17060-07-0	
<b>8260 MSV Low Level SC</b>									
Analytical Method: EPA 8260									
tert-Amyl Alcohol	ND	ug/L	100	50.0	1		10/12/17 05:27	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	0.10	1		10/12/17 05:27	994-05-8	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	50.0	1		10/12/17 05:27	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	3.6	1		10/12/17 05:27	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	1.9	1		10/12/17 05:27	762-75-4	P5
Diisopropyl ether	ND	ug/L	1.0	0.12	1		10/12/17 05:27	108-20-3	
Ethanol	ND	ug/L	200	131	1		10/12/17 05:27	64-17-5	
Ethyl-tert-butyl ether	ND	ug/L	10.0	0.070	1		10/12/17 05:27	637-92-3	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	99	%	70-130		1		10/12/17 05:27	460-00-4	
1,2-Dichloroethane-d4 (S)	97	%	70-130		1		10/12/17 05:27	17060-07-0	
Toluene-d8 (S)	106	%	70-130		1		10/12/17 05:27	2037-26-5	

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: STEADY SIMMONS WSW 18858/55294  
Pace Project No.: 92358491

Sample: WSW-2									
Lab ID: 92358491002 Collected: 10/09/17 13:35 Received: 10/10/17 06:07 Matrix: Water									
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>504 GCS EDB and DBCP</b> Analytical Method: EPA 504.1 Preparation Method: EPA 504.1									
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	0.019	1	10/11/17 12:47	10/12/17 00:21	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	88	%	70-130		1	10/11/17 12:47	10/12/17 00:21	301-79-56	
<b>524.2 MSV</b> Analytical Method: EPA 524.2									
Benzene	ND	mg/L	0.00050	0.00025	1		10/16/17 15:10	71-43-2	
1,2-Dichloroethane	ND	mg/L	0.00050	0.00025	1		10/16/17 15:10	107-06-2	
Ethylbenzene	ND	mg/L	0.00050	0.00025	1		10/16/17 15:10	100-41-4	
Methyl-tert-butyl ether	ND	mg/L	0.00050	0.00025	1		10/16/17 15:10	1634-04-4	
Naphthalene	ND	mg/L	0.00050	0.00025	1		10/16/17 15:10	91-20-3	
Toluene	ND	mg/L	0.00050	0.00025	1		10/16/17 15:10	108-88-3	
Xylene (Total)	ND	mg/L	0.00050	0.00025	1		10/16/17 15:10	1330-20-7	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	90	%	70-130		1		10/16/17 15:10	460-00-4	
Toluene-d8 (S)	103	%	70-130		1		10/16/17 15:10	2037-26-5	
1,2-Dichloroethane-d4 (S)	119	%	70-130		1		10/16/17 15:10	17060-07-0	
<b>8260 MSV Low Level SC</b> Analytical Method: EPA 8260									
tert-Amyl Alcohol	ND	ug/L	100	50.0	1		10/12/17 05:44	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	0.10	1		10/12/17 05:44	994-05-8	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	50.0	1		10/12/17 05:44	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	3.6	1		10/12/17 05:44	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	1.9	1		10/12/17 05:44	762-75-4	
Diisopropyl ether	ND	ug/L	1.0	0.12	1		10/12/17 05:44	108-20-3	
Ethanol	ND	ug/L	200	131	1		10/12/17 05:44	64-17-5	
Ethyl-tert-butyl ether	ND	ug/L	10.0	0.070	1		10/12/17 05:44	637-92-3	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	100	%	70-130		1		10/12/17 05:44	460-00-4	
1,2-Dichloroethane-d4 (S)	91	%	70-130		1		10/12/17 05:44	17060-07-0	
Toluene-d8 (S)	111	%	70-130		1		10/12/17 05:44	2037-26-5	

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: STEADY SIMMONS WSW 18856/55294  
Pace Project No.: 92358491

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>Sample: WSW-3</b>									
<b>Lab ID: 92358491003</b>									
Collected: 10/09/17 13:40 Received: 10/10/17 06:07 Matrix: Water									
Analytical Method: EPA 504.1 Preparation Method: EPA 504.1									
<b>504 GCS EDB and DBCP</b>									
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	0.019	1	10/16/17 14:47	10/16/17 18:10	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	106	%	70-130		1	10/16/17 14:47	10/16/17 18:10	301-79-56	
Analytical Method: EPA 524.2									
<b>524.2 MSV</b>									
Benzene	ND	mg/L	0.00050	0.00025	1		10/16/17 15:36	71-43-2	
1,2-Dichloroethane	ND	mg/L	0.00050	0.00025	1		10/16/17 15:36	107-06-2	
Ethylbenzene	ND	mg/L	0.00050	0.00025	1		10/16/17 15:36	100-41-4	
Methyl-tert-butyl ether	ND	mg/L	0.00050	0.00025	1		10/16/17 15:36	1634-04-4	
Naphthalene	ND	mg/L	0.00050	0.00025	1		10/16/17 15:36	91-20-3	
Toluene	ND	mg/L	0.00050	0.00025	1		10/16/17 15:36	108-88-3	
Xylene (Total)	ND	mg/L	0.00050	0.00025	1		10/16/17 15:36	1330-20-7	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	89	%	70-130		1		10/16/17 15:36	460-00-4	
Toluene-d8 (S)	102	%	70-130		1		10/16/17 15:36	2037-26-5	
1,2-Dichloroethane-d4 (S)	120	%	70-130		1		10/16/17 15:36	17060-07-0	
Analytical Method: EPA 8260									
<b>8260 MSV Low Level SC</b>									
tert-Amyl Alcohol	ND	ug/L	100	50.0	1		10/12/17 06:02	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	0.10	1		10/12/17 06:02	994-05-8	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	50.0	1		10/12/17 06:02	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	3.6	1		10/12/17 06:02	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	1.9	1		10/12/17 06:02	762-75-4	
Diisopropyl ether	ND	ug/L	1.0	0.12	1		10/12/17 06:02	108-20-3	
Ethanol	ND	ug/L	200	131	1		10/12/17 06:02	64-17-5	
Ethyl-tert-butyl ether	ND	ug/L	10.0	0.070	1		10/12/17 06:02	637-92-3	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	98	%	70-130		1		10/12/17 06:02	460-00-4	
1,2-Dichloroethane-d4 (S)	94	%	70-130		1		10/12/17 06:02	17060-07-0	
Toluene-d8 (S)	112	%	70-130		1		10/12/17 06:02	2037-26-5	

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### ANALYTICAL RESULTS

Project: STEADY SIMMONS WSW 18856/55294  
Pace Project No.: 92358491

Sample: WSW-4									
Lab ID: 92358491004 Collected: 10/09/17 13:40 Received: 10/10/17 06:07 Matrix: Water									
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>504 GCS EDB and DBCP</b>									
Analytical Method: EPA 504.1 Preparation Method: EPA 504.1									
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	0.019	1	10/16/17 14:47	10/16/17 18:29	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	125	%	70-130		1	10/16/17 14:47	10/16/17 18:29	301-79-56	
<b>524.2 MSV</b>									
Analytical Method: EPA 524.2									
Benzene	ND	mg/L	0.00050	0.00025	1		10/16/17 16:02	71-43-2	
1,2-Dichloroethane	ND	mg/L	0.00050	0.00025	1		10/16/17 16:02	107-06-2	
Ethylbenzene	ND	mg/L	0.00050	0.00025	1		10/16/17 16:02	100-41-4	
Methyl-tert-butyl ether	ND	mg/L	0.00050	0.00025	1		10/16/17 16:02	1634-04-4	
Naphthalene	ND	mg/L	0.00050	0.00025	1		10/16/17 16:02	91-20-3	
Toluene	ND	mg/L	0.00050	0.00025	1		10/16/17 16:02	108-88-3	
Xylene (Total)	ND	mg/L	0.00050	0.00025	1		10/16/17 16:02	1330-20-7	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	88	%	70-130		1		10/16/17 16:02	460-00-4	
Toluene-d8 (S)	103	%	70-130		1		10/16/17 16:02	2037-26-5	
1,2-Dichloroethane-d4 (S)	119	%	70-130		1		10/16/17 16:02	17060-07-0	
<b>8260 MSV Low Level SC</b>									
Analytical Method: EPA 8260									
tert-Amyl Alcohol	ND	ug/L	100	50.0	1		10/12/17 06:19	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	0.10	1		10/12/17 06:19	994-05-8	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	50.0	1		10/12/17 06:19	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	3.6	1		10/12/17 06:19	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	1.9	1		10/12/17 06:19	762-75-4	
Diisopropyl ether	ND	ug/L	1.0	0.12	1		10/12/17 06:19	108-20-3	
Ethanol	ND	ug/L	200	131	1		10/12/17 06:19	64-17-5	
Ethyl-tert-butyl ether	ND	ug/L	10.0	0.070	1		10/12/17 06:19	637-92-3	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	100	%	70-130		1		10/12/17 06:19	460-00-4	
1,2-Dichloroethane-d4 (S)	98	%	70-130		1		10/12/17 06:19	17060-07-0	
Toluene-d8 (S)	105	%	70-130		1		10/12/17 06:19	2037-26-5	

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### ANALYTICAL RESULTS

Project: STEADY SIMMONS WSW 18856/55294  
Pace Project No.: 92358491

Sample: WSW-7      Lab ID: 92358491005      Collected: 10/09/17 13:30      Received: 10/10/17 06:07      Matrix: Water									
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>504 GCS EDB and DBCP</b> Analytical Method: EPA 504.1      Preparation Method: EPA 504.1									
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	0.019	1	10/16/17 14:47	10/16/17 18:49	106-93-4	
<i>Surrogates</i>									
1-Chloro-2-bromopropane (S)	103	%	70-130		1	10/16/17 14:47	10/16/17 18:49	301-79-56	
<b>524.2 MSV</b> Analytical Method: EPA 524.2									
Benzene	ND	mg/L	0.00050	0.00025	1		10/16/17 16:28	71-43-2	
1,2-Dichloroethane	ND	mg/L	0.00050	0.00025	1		10/16/17 16:28	107-06-2	
Ethylbenzene	ND	mg/L	0.00050	0.00025	1		10/16/17 16:28	100-41-4	
Methyl-tert-butyl ether	ND	mg/L	0.00050	0.00025	1		10/16/17 16:28	1634-04-4	
Naphthalene	ND	mg/L	0.00050	0.00025	1		10/16/17 16:28	91-20-3	
Toluene	ND	mg/L	0.00050	0.00025	1		10/16/17 16:28	108-88-3	
Xylene (Total)	ND	mg/L	0.00050	0.00025	1		10/16/17 16:28	1330-20-7	
<i>Surrogates</i>									
4-Bromofluorobenzene (S)	87	%	70-130		1		10/16/17 16:28	460-00-4	
Toluene-d8 (S)	104	%	70-130		1		10/16/17 16:28	2037-26-5	
1,2-Dichloroethane-d4 (S)	121	%	70-130		1		10/16/17 16:28	17060-07-0	
<b>8260 MSV Low Level SC</b> Analytical Method: EPA 8260									
tert-Amyl Alcohol	ND	ug/L	100	50.0	1		10/12/17 06:36	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	0.10	1		10/12/17 06:36	994-05-8	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	50.0	1		10/12/17 06:36	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	3.6	1		10/12/17 06:36	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	1.9	1		10/12/17 06:36	762-75-4	
Diisopropyl ether	ND	ug/L	1.0	0.12	1		10/12/17 06:36	108-20-3	
Ethanol	ND	ug/L	200	131	1		10/12/17 06:36	64-17-5	
Ethyl-tert-butyl ether	ND	ug/L	10.0	0.070	1		10/12/17 06:36	637-92-3	
<i>Surrogates</i>									
4-Bromofluorobenzene (S)	95	%	70-130		1		10/12/17 06:36	460-00-4	
1,2-Dichloroethane-d4 (S)	93	%	70-130		1		10/12/17 06:36	17060-07-0	
Toluene-d8 (S)	106	%	70-130		1		10/12/17 06:36	2037-26-5	

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### ANALYTICAL RESULTS

Project: STEADY SIMMONS WSW 18856/55294  
Pace Project No.: 92358491

Sample: DUPLICATE									
Lab ID: 92358491006 Collected: 10/09/17 13:30 Received: 10/10/17 06:07 Matrix: Water									
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>504 GCS EDB and DBCP</b>									
Analytical Method: EPA 504.1 Preparation Method: EPA 504.1									
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	0.019	1	10/16/17 14:48	10/16/17 19:09	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	130	%	70-130		1	10/16/17 14:48	10/16/17 19:09	301-79-56	
<b>524.2 MSV</b>									
Analytical Method: EPA 524.2									
Benzene	ND	mg/L	0.00050	0.00025	1		10/16/17 16:54	71-43-2	
1,2-Dichloroethane	ND	mg/L	0.00050	0.00025	1		10/16/17 16:54	107-06-2	
Ethylbenzene	ND	mg/L	0.00050	0.00025	1		10/16/17 16:54	100-41-4	
Methyl-tert-butyl ether	ND	mg/L	0.00050	0.00025	1		10/16/17 16:54	1634-04-4	
Naphthalene	ND	mg/L	0.00050	0.00025	1		10/16/17 16:54	91-20-3	
Toluene	ND	mg/L	0.00050	0.00025	1		10/16/17 16:54	108-88-3	
Xylene (Total)	ND	mg/L	0.00050	0.00025	1		10/16/17 16:54	1330-20-7	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	90	%	70-130		1		10/16/17 16:54	460-00-4	
Toluene-d8 (S)	103	%	70-130		1		10/16/17 16:54	2037-26-5	
1,2-Dichloroethane-d4 (S)	118	%	70-130		1		10/16/17 16:54	17060-07-0	
<b>8260 MSV Low Level SC</b>									
Analytical Method: EPA 8260									
tert-Amyl Alcohol	ND	ug/L	100	50.0	1		10/12/17 06:53	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	0.10	1		10/12/17 06:53	994-05-8	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	50.0	1		10/12/17 06:53	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	3.6	1		10/12/17 06:53	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	1.9	1		10/12/17 06:53	762-75-4	
Diisopropyl ether	ND	ug/L	1.0	0.12	1		10/12/17 06:53	108-20-3	
Ethanol	ND	ug/L	200	131	1		10/12/17 06:53	64-17-5	
Ethyl-tert-butyl ether	ND	ug/L	10.0	0.070	1		10/12/17 06:53	637-92-3	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	94	%	70-130		1		10/12/17 06:53	460-00-4	
1,2-Dichloroethane-d4 (S)	92	%	70-130		1		10/12/17 06:53	17060-07-0	
Toluene-d8 (S)	110	%	70-130		1		10/12/17 06:53	2037-26-5	

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### ANALYTICAL RESULTS

Project: STEADY SIMMONS WSW 18856/55294  
Pace Project No.: 92358491

Sample: FIELD BLANK      Lab ID: 92358491007      Collected: 10/09/17 13:47      Received: 10/10/17 06:07      Matrix: Water									
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>504 GCS EDB and DBCP</b> Analytical Method: EPA 504.1      Preparation Method: EPA 504.1									
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	0.019	1	10/16/17 14:48	10/16/17 19:29	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	114	%	70-130		1	10/16/17 14:48	10/16/17 19:29	301-79-56	
<b>524.2 MSV</b> Analytical Method: EPA 524.2									
Benzene	ND	mg/L	0.00050	0.00025	1		10/16/17 17:20	71-43-2	
1,2-Dichloroethane	ND	mg/L	0.00050	0.00025	1		10/16/17 17:20	107-06-2	
Ethylbenzene	ND	mg/L	0.00050	0.00025	1		10/16/17 17:20	100-41-4	
Methyl-tert-butyl ether	ND	mg/L	0.00050	0.00025	1		10/16/17 17:20	1634-04-4	
Naphthalene	ND	mg/L	0.00050	0.00025	1		10/16/17 17:20	91-20-3	
Toluene	ND	mg/L	0.00050	0.00025	1		10/16/17 17:20	108-88-3	
Xylene (Total)	ND	mg/L	0.00050	0.00025	1		10/16/17 17:20	1330-20-7	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	89	%	70-130		1		10/16/17 17:20	460-00-4	
Toluene-d8 (S)	102	%	70-130		1		10/16/17 17:20	2037-26-5	
1,2-Dichloroethane-d4 (S)	122	%	70-130		1		10/16/17 17:20	17060-07-0	
<b>8260 MSV Low Level SC</b> Analytical Method: EPA 8260									
tert-Amyl Alcohol	ND	ug/L	100	50.0	1		10/12/17 02:35	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	0.10	1		10/12/17 02:35	994-05-8	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	50.0	1		10/12/17 02:35	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	3.6	1		10/12/17 02:35	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	1.9	1		10/12/17 02:35	762-75-4	
Diisopropyl ether	ND	ug/L	1.0	0.12	1		10/12/17 02:35	108-20-3	
Ethanol	ND	ug/L	200	131	1		10/12/17 02:35	64-17-5	
Ethyl-tert-butyl ether	ND	ug/L	10.0	0.070	1		10/12/17 02:35	637-92-3	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	102	%	70-130		1		10/12/17 02:35	460-00-4	
1,2-Dichloroethane-d4 (S)	97	%	70-130		1		10/12/17 02:35	17060-07-0	
Toluene-d8 (S)	108	%	70-130		1		10/12/17 02:35	2037-26-5	

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### ANALYTICAL RESULTS

Project: STEADY SIMMONS WSW 18856/55294

Pace Project No.: 92358491

Sample: TRIP BLANK Lab ID: 92358491008 Collected: 10/09/17 13:47 Received: 10/10/17 06:07 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>524.2 MSV</b>									
Analytical Method: EPA 524.2									
Benzene	ND	mg/L	0.00050	0.00025	1		10/16/17 17:46	71-43-2	
1,2-Dichloroethane	ND	mg/L	0.00050	0.00025	1		10/16/17 17:46	107-06-2	
Ethylbenzene	ND	mg/L	0.00050	0.00025	1		10/16/17 17:46	100-41-4	
Methyl-tert-butyl ether	ND	mg/L	0.00050	0.00025	1		10/16/17 17:46	1634-04-4	
Naphthalene	ND	mg/L	0.00050	0.00025	1		10/16/17 17:46	91-20-3	
Toluene	ND	mg/L	0.00050	0.00025	1		10/16/17 17:46	108-88-3	
Xylene (Total)	ND	mg/L	0.00050	0.00025	1		10/16/17 17:46	1330-20-7	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	88	%	70-130		1		10/16/17 17:46	460-00-4	
Toluene-d8 (S)	102	%	70-130		1		10/16/17 17:46	2037-26-5	
1,2-Dichloroethane-d4 (S)	123	%	70-130		1		10/16/17 17:46	17060-07-0	
<b>8260 MSV Low Level SC</b>									
Analytical Method: EPA 8260									
tert-Amyl Alcohol	ND	ug/L	100	50.0	1		10/12/17 02:52	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	0.10	1		10/12/17 02:52	994-05-8	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	50.0	1		10/12/17 02:52	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	3.6	1		10/12/17 02:52	75-85-0	
tert-Butyl Formate	ND	ug/L	50.0	1.9	1		10/12/17 02:52	762-75-4	
Diisopropyl ether	ND	ug/L	1.0	0.12	1		10/12/17 02:52	108-20-3	
Ethanol	ND	ug/L	200	131	1		10/12/17 02:52	64-17-5	
Ethyl-tert-butyl ether	ND	ug/L	10.0	0.070	1		10/12/17 02:52	637-92-3	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	99	%	70-130		1		10/12/17 02:52	460-00-4	
1,2-Dichloroethane-d4 (S)	89	%	70-130		1		10/12/17 02:52	17060-07-0	
Toluene-d8 (S)	115	%	70-130		1		10/12/17 02:52	2037-26-5	

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### QUALITY CONTROL DATA

Project: STEADY SIMMONS WSW 18856/55294  
Pace Project No.: 92358491

QC Batch: 399000 Analysis Method: EPA 524.2  
QC Batch Method: EPA 524.2 Analysis Description: 524.2 MSV  
Associated Lab Samples: 92358491001, 92358491002, 92358491003, 92358491004, 92358491005, 92358491006, 92358491007, 92358491008

METHOD BLANK: 2178260 Matrix: Water  
Associated Lab Samples: 92358491001, 92358491002, 92358491003, 92358491004, 92358491005, 92358491006, 92358491007, 92358491008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dichloroethane	mg/L	ND	0.00050	0.00025	10/16/17 13:07	
Benzene	mg/L	ND	0.00050	0.00025	10/16/17 13:07	
Ethylbenzene	mg/L	ND	0.00050	0.00025	10/16/17 13:07	
Methyl-tert-butyl ether	mg/L	0.0013	0.00050	0.00025	10/16/17 13:07	
Naphthalene	mg/L	ND	0.00050	0.00025	10/16/17 13:07	
Toluene	mg/L	ND	0.00050	0.00025	10/16/17 13:07	
Xylene (Total)	mg/L	ND	0.00050	0.00025	10/16/17 13:07	
1,2-Dichloroethane-d4 (S)	%	112	70-130		10/16/17 13:07	
4-Bromofluorobenzene (S)	%	88	70-130		10/16/17 13:07	
Toluene-d8 (S)	%	102	70-130		10/16/17 13:07	

Parameter	Units	LABORATORY CONTROL SAMPLE & LCSD: 2178261 2178262									
		Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers	
1,2-Dichloroethane	mg/L	.02	0.020	0.019	100	95	70-130	5	40		
Benzene	mg/L	.02	0.020	0.019	98	95	70-130	3	40		
Ethylbenzene	mg/L	.02	0.020	0.019	100	95	70-130	5	40		
Methyl-tert-butyl ether	mg/L	.02	0.021	0.021	105	105	70-130	0	40		
Naphthalene	mg/L	.02	0.016	0.017	82	87	70-130	5	40		
Toluene	mg/L	.02	0.018	0.017	90	86	70-130	4	40		
Xylene (Total)	mg/L	.06	0.053	0.051	88	85	70-130	3	40		
1,2-Dichloroethane-d4 (S)	%				96	99	70-130				
4-Bromofluorobenzene (S)	%				100	104	70-130				
Toluene-d8 (S)	%				99	102	70-130				

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: STEADY SIMMONS WSW 18856/55294  
Pace Project No.: 92358491

QC Batch: 381953 Analysis Method: EPA 8260  
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV Low Level SC  
Associated Lab Samples: 92358491001, 92358491002, 92358491003, 92358491004, 92358491005, 92358491006, 92358491007, 92358491008

METHOD BLANK: 2116671 Matrix: Water  
Associated Lab Samples: 92358491001, 92358491002, 92358491003, 92358491004, 92358491005, 92358491006, 92358491007, 92358491008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
3,3-Dimethyl-1-Butanol	ug/L	ND	100	50.0	10/12/17 01:26	
Diisopropyl ether	ug/L	ND	1.0	0.12	10/12/17 01:26	
Ethanol	ug/L	ND	200	131	10/12/17 01:26	
Ethyl-tert-butyl ether	ug/L	ND	10.0	0.070	10/12/17 01:26	
tert-Amyl Alcohol	ug/L	ND	100	50.0	10/12/17 01:26	
tert-Amylmethyl ether	ug/L	ND	10.0	0.10	10/12/17 01:26	
tert-Butyl Alcohol	ug/L	ND	100	3.6	10/12/17 01:26	
tert-Butyl Formate	ug/L	ND	50.0	1.9	10/12/17 01:26	
1,2-Dichloroethane-d4 (S)	%	91	70-130		10/12/17 01:26	
4-Bromofluorobenzene (S)	%	101	70-130		10/12/17 01:26	
Toluene-d8 (S)	%	107	70-130		10/12/17 01:26	

LABORATORY CONTROL SAMPLE: 2116672

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
3,3-Dimethyl-1-Butanol	ug/L	1000	979	98	70-130	
Diisopropyl ether	ug/L	50	51.7	103	70-130	
Ethanol	ug/L	2000	2570	129	70-130	
Ethyl-tert-butyl ether	ug/L	100	102	102	70-130	
tert-Amyl Alcohol	ug/L	1000	974	97	70-130	
tert-Amylmethyl ether	ug/L	100	104	104	70-130	
tert-Butyl Alcohol	ug/L	500	487	97	70-130	
tert-Butyl Formate	ug/L	400	450	113	70-130	
1,2-Dichloroethane-d4 (S)	%			104	70-130	
4-Bromofluorobenzene (S)	%			96	70-130	
Toluene-d8 (S)	%			94	70-130	

MATRIX SPIKE SAMPLE: 2116674

Parameter	Units	92358491001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
3,3-Dimethyl-1-Butanol	ug/L	ND	400	401	100	70-130	
Diisopropyl ether	ug/L	ND	20	22.7	113	70-130	
Ethanol	ug/L	ND	800	702	88	70-130	
Ethyl-tert-butyl ether	ug/L	ND	40	43.7	109	70-130	
tert-Amyl Alcohol	ug/L	ND	400	367	92	70-130	
tert-Amylmethyl ether	ug/L	ND	40	42.8	107	70-130	
tert-Butyl Alcohol	ug/L	ND	200	236	118	70-130	

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### REPORT OF LABORATORY ANALYSIS

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**QUALITY CONTROL DATA**

Project: STEADY SIMMONS WSW 18856/55294  
Pace Project No.: 92358491

MATRIX SPIKE SAMPLE: 2116674

Parameter	Units	92358491001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
tert-Butyl Formate	ug/L	ND	160	50.1	31	70-130	P5
1,2-Dichloroethane-d4 (S)	%				107	70-130	
4-Bromofluorobenzene (S)	%				96	70-130	
Toluene-d8 (S)	%				97	70-130	

SAMPLE DUPLICATE: 2116673

Parameter	Units	92358284001 Result	Dup Result	RPD	Max RPD	Qualifiers
3,3-Dimethyl-1-Butanol	ug/L	ND	ND		30	
Diisopropyl ether	ug/L	ND	ND		30	
Ethanol	ug/L	ND	ND		30	
Ethyl-tert-butyl ether	ug/L	ND	ND		30	
tert-Amyl Alcohol	ug/L	ND	ND		30	
tert-Amylmethyl ether	ug/L	ND	ND		30	
tert-Butyl Alcohol	ug/L	ND	ND		30	
tert-Butyl Formate	ug/L	ND	ND		30	
1,2-Dichloroethane-d4 (S)	%	95	98	3		
4-Bromofluorobenzene (S)	%	97	101	4		
Toluene-d8 (S)	%	108	109	0		

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**REPORT OF LABORATORY ANALYSIS**

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**QUALITY CONTROL DATA**

Project: STEADY SIMMONS WSW 18858/55294  
Pace Project No.: 92358491

QC Batch: 381802 Analysis Method: EPA 504.1  
QC Batch Method: EPA 504.1 Analysis Description: GCS 504 EDB DBCP  
Associated Lab Samples: 92358491001, 92358491002

METHOD BLANK: 2115811 Matrix: Water  
Associated Lab Samples: 92358491001, 92358491002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	0.019	0.019	10/11/17 15:52	
1-Chloro-2-bromopropane (S)	%	112	70-130		10/11/17 15:52	

LABORATORY CONTROL SAMPLE & LCSD: 2115812 2115813

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	.25	0.24	0.25	98	105	70-130	5	20	
1-Chloro-2-bromopropane (S)	%				105	105	70-130			

SAMPLE DUPLICATE: 2115816

Parameter	Units	92358513002 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	ND		20	
1-Chloro-2-bromopropane (S)	%	103	106	4		

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

**REPORT OF LABORATORY ANALYSIS**

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**QUALITY CONTROL DATA**

Project: STEADY SIMMONS WSW 18856/55294  
Pace Project No.: 92358491

QC Batch: 382542 Analysis Method: EPA 504.1  
QC Batch Method: EPA 504.1 Analysis Description: GCS 504 EDB DBCP  
Associated Lab Samples: 92358491003, 92358491004, 92358491005, 92358491006, 92358491007

METHOD BLANK: 2119983 Matrix: Water  
Associated Lab Samples: 92358491003, 92358491004, 92358491005, 92358491006, 92358491007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	0.019	0.019	10/16/17 16:30	
1-Chloro-2-bromopropane (S)	%	136	70-130		10/16/17 16:30	S3

LABORATORY CONTROL SAMPLE & LCSD: 2119984 2119985

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	.24	0.25	0.26	105	110	70-130	4	20	
1-Chloro-2-bromopropane (S)	%				105	109	70-130			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2119986 2119987

Parameter	Units	92358524002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dibromoethane (EDB)	ug/L	ND	.25	.25	0.26	0.26	105	105	65-135	0	20	
1-Chloro-2-bromopropane (S)	%						107	105	70-130			

SAMPLE DUPLICATE: 2119988

Parameter	Units	92359177002 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	ND		20	
1-Chloro-2-bromopropane (S)	%	106	102	2		

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**REPORT OF LABORATORY ANALYSIS**

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## QUALIFIERS

Project: STEADY SIMMONS WSW 18858/55294  
Pace Project No.: 92358491

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### DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.  
ND - Not Detected at or above adjusted reporting limit.  
TNTC - Too Numerous To Count  
J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.  
MDL - Adjusted Method Detection Limit.  
PQL - Practical Quantitation Limit.  
RL - Reporting Limit.  
S - Surrogate  
1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.  
Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.  
LCS(D) - Laboratory Control Sample (Duplicate)  
MS(D) - Matrix Spike (Duplicate)  
DUP - Sample Duplicate  
RPD - Relative Percent Difference  
NC - Not Calculable.  
SG - Silica Gel - Clean-Up  
U - Indicates the compound was analyzed for, but not detected.  
Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.  
A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.  
N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.  
Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.  
TNI - The NELAC Institute.

### LABORATORIES

PASI-C Pace Analytical Services - Charlotte  
PASI-O Pace Analytical Services - Ormond Beach

### ANALYTE QUALIFIERS

P5 The EPA or method required sample preservation degrades this compound, therefore acceptable recoveries may not be achieved in sample matrix spikes.  
S3 Surrogate recovery exceeded laboratory control limits. Analyte presence below reporting limits in associated sample.

## REPORT OF LABORATORY ANALYSIS

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**QUALITY CONTROL DATA CROSS REFERENCE TABLE**

Project: STEADY SIMMONS WSW 18856/55294  
Pace Project No.: 92358491

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92358491001	WSW-1	EPA 504.1	381802	EPA 504.1	381885
92358491002	WSW-2	EPA 504.1	381802	EPA 504.1	381885
92358491003	WSW-3	EPA 504.1	382542	EPA 504.1	382569
92358491004	WSW-4	EPA 504.1	382542	EPA 504.1	382569
92358491005	WSW-7	EPA 504.1	382542	EPA 504.1	382569
92358491006	DUPLICATE	EPA 504.1	382542	EPA 504.1	382569
92358491007	FIELD BLANK	EPA 504.1	382542	EPA 504.1	382569
92358491001	WSW-1	EPA 524.2	399000		
92358491002	WSW-2	EPA 524.2	399000		
92358491003	WSW-3	EPA 524.2	399000		
92358491004	WSW-4	EPA 524.2	399000		
92358491005	WSW-7	EPA 524.2	399000		
92358491006	DUPLICATE	EPA 524.2	399000		
92358491007	FIELD BLANK	EPA 524.2	399000		
92358491008	TRIP BLANK	EPA 524.2	399000		
92358491001	WSW-1	EPA 8260	381953		
92358491002	WSW-2	EPA 8260	381953		
92358491003	WSW-3	EPA 8260	381953		
92358491004	WSW-4	EPA 8260	381953		
92358491005	WSW-7	EPA 8260	381953		
92358491006	DUPLICATE	EPA 8260	381953		
92358491007	FIELD BLANK	EPA 8260	381953		
92358491008	TRIP BLANK	EPA 8260	381953		

**REPORT OF LABORATORY ANALYSIS**

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	Document Name: Sample Condition Upon Receipt (SCUR)	Document Revised: August 4, 2017 Page 1 of 2
	Document No.: F-CAR-CS-033-Rev.04	Issuing Authority: Pace Quality Office

Laboratory receiving samples:

Asheville  Eden  Greenwood  Huntersville  Raleigh  Mechanicsville

Sample Condition Upon Receipt

Client Name:  
SCDHEC

Project WO#: **92358491**

Courier:  Fed Ex  UPS  USPS  Client  
 Commercial  Pace  Other: \_\_\_\_\_



92358491

Custody Seal Present?  Yes  No Seals Intact?  Yes  No

Date/Initials Person Examining Contents: 10-10-17

Packing Material:  Bubble Wrap  Bubble Bags  None  Other

Biological Tissue Frozen?

Thermometer:  IR-Gun ID: T1701 Type of Ice:  Wet  Blue  None

Yes  No  N/A

Correction Factor: Cooler Temp Corrected (°C): 4.7

Temp should be above freezing to 6°C  
 Samples out of temp criteria. Samples on ice, cooling process has begun

USDA Regulated Soil  N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)?  
 Yes  No

Did samples originate from a foreign source (Internationally, including Hawaii and Puerto Rico)?  Yes  No

	Comments/Discrepancy:
Chain of Custody Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Samples Arrived within Hold Time? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Short Hold Time Analysis (<72 hr.)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	3.
Rush Turn Around Time Requested? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	4.
Sufficient Volume? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Correct Containers Used? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	6.
-Pace Containers Used? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Containers Intact? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	7.
Dissolved analysis: Samples Field Filtered? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	8.
Sample Labels Match COC? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	9. <u>No date &amp; time on samples</u>
-Includes Date/Time/ID/Analysis Matrix: <u>WT</u>	
Headspace in VOA Vials (>5-6mm)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	10.
Trip Blank Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	11.
Trip Blank Custody Seals Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	

CLIENT NOTIFICATION/RESOLUTION

10-10-17

Field Data Required?  Yes  No

Person Contacted: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Comments/Sample Discrepancy: \_\_\_\_\_

Lot ID of split containers: \_\_\_\_\_

Project Manager SCURF Review: TC Date: 10/11/17

Project Manager SRF Review: TC Date: 10/11/17

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers)

\*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.

Project # **WO# : 92358491**

PH: RNC Due Date: 10/19/17  
CLIENT: 92-SCDHEC

\*\*Bottom half of box is to list number of bottles

Item#	Item Description	1	2	3	4	5	6	7	8	9	10	11	12
BP4U-125 mL Plastic Unpreserved (N/A) (C-)	/	/	/	/	/	/	/	/	/	/	/	/	/
BP3U-250 mL Plastic Unpreserved (N/A)	/	/	/	/	/	/	/	/	/	/	/	/	/
BP2U-500 mL Plastic Unpreserved (N/A)	/	/	/	/	/	/	/	/	/	/	/	/	/
BP1U-1 liter Plastic Unpreserved (N/A)	/	/	/	/	/	/	/	/	/	/	/	/	/
BP4S-125 mL Plastic H2SO4 (pH < 2) (C-)	/	/	/	/	/	/	/	/	/	/	/	/	/
BP3S-250 mL plastic HNO3 (pH < 2)	/	/	/	/	/	/	/	/	/	/	/	/	/
BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	/	/	/	/	/	/	/	/	/	/	/	/	/
BP4C-125 mL Plastic NaOH (pH > 12) (C-)	/	/	/	/	/	/	/	/	/	/	/	/	/
W67U-Wide-mouthed Glass jar Unpreserved	/	/	/	/	/	/	/	/	/	/	/	/	/
AG1U-1 liter Amber Unpreserved (N/A) (C-)	/	/	/	/	/	/	/	/	/	/	/	/	/
AG3H-1 liter Amber HCl (pH < 2)	/	/	/	/	/	/	/	/	/	/	/	/	/
AG3U-250 mL Amber Unpreserved (N/A) (C-)	/	/	/	/	/	/	/	/	/	/	/	/	/
AG5S-1 liter Amber H2SO4 (pH < 2)	/	/	/	/	/	/	/	/	/	/	/	/	/
AG3S-250 mL Amber H2SO4 (pH < 2)	/	/	/	/	/	/	/	/	/	/	/	/	/
AG3A[DG8A]-250 mL Amber NH4Cl (N/A)(C-)	/	/	/	/	/	/	/	/	/	/	/	/	/
D69H-40 mL VOA HCl (N/A)	/	/	/	/	/	/	/	/	/	/	/	/	/
V69T-40 mL VOA N2S2O3 (N/A)	/	/	/	/	/	/	/	/	/	/	/	/	/
V69U-40 mL VOA Unp (N/A)	/	/	/	/	/	/	/	/	/	/	/	/	/
D69P-40 mL VOA H3PO4 (N/A)	/	/	/	/	/	/	/	/	/	/	/	/	/
VOAat (5 vials per kit)-S085 kit (N/A)	/	/	/	/	/	/	/	/	/	/	/	/	/
V/GK (5 vials per kit)-VPH/Gas kit (N/A)	/	/	/	/	/	/	/	/	/	/	/	/	/
SP5T-125 mL Sterile Plastic (N/A - lab)	/	/	/	/	/	/	/	/	/	/	/	/	/
SP2T-250 mL Sterile Plastic (N/A - lab)	/	/	/	/	/	/	/	/	/	/	/	/	/
BP3A-250 mL Plastic (NH2)2SO4 (9.9-9.7)	/	/	/	/	/	/	/	/	/	/	/	/	/
Cubitainer	/	/	/	/	/	/	/	/	/	/	/	/	/
VSGU-20 mL Scintillation vials (N/A)	/	/	/	/	/	/	/	/	/	/	/	/	/
GN	/	/	/	/	/	/	/	/	/	/	/	/	/

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #





### CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

<b>Section A</b> Required Client Information: Company: <u>SDA ECUST</u> Address: <u>2600 Bull Street</u> <u>Columbia SC 29207</u> Email To: <u>kyant@sdacust.com</u> Phone: <u>803-794-0200</u> <u>803-974-0273</u> Requested Date/TAT:	<b>Section B</b> Required Project Information: Report To: <u>J. Bryant - UST</u> Copy To: Purchase Order No.: <u>460022913</u> Project Name: <u>Stanley Simmons</u> Project Number: <u>UST-18856 CA-56294</u>	<b>Section C</b> Invoice Information: Attention: Company Name: Address: Pace Quote Reference: Pace Project Manager: <u>J. Carter</u> Pace Profile #: <u>113</u>	Page:   of   <u>2195118</u> <b>REGULATORY AGENCY</b> <input type="checkbox"/> NPDES <input type="checkbox"/> GROUND WATER <input type="checkbox"/> DRINKING WATER <input type="checkbox"/> LUST <input type="checkbox"/> RCRA <input type="checkbox"/> OTHER Site Location: <u>SC</u> <u>Jasper</u> STATE:
--	---	--	--

ITEM #	SAMPLE ID (A-Z, 0-9, /) Sample IDs MUST BE UNIQUE	Matrix Codes (A-Z, 0-9, /) Matrix Code		COLLECTED		# OF CONTAINERS	Preservatives							Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)	Pace Project No. / Lab I.D.	
		DW WT	SL SP	DATE	TIME		DATE	TIME	Unpreserved	H2SO4	HNO3	HCl	NaOH				NH4SCN
1	WS-1	DL	G	10/17	18:30	9											LDL 001
2	WS-2			10/17	17:35	9											LDL 002
3	WS-3			10/17	18:40	9											LDL 003
4	WS-4			10/17	18:49	9											LDL 004
5	WS-5																No Sample
6	WS-6			10/19	18:20	9											No Sample
7	WS-7																No Sample
8	WS-8																No Sample
9	WS-9																No Sample
10	duplicate			10/17	18:30	9											LDL 006
11	Field Blank			10/17	18:47	9											LDL 007
12	Field Blank			10/17	18:49	6											LDL 008

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	<i>[Signature]</i>	10/17		<i>[Signature]</i>	10/17	6:07	
	<i>[Signature]</i>	10/17	12:58	<i>[Signature]</i>	10/17	12:58	Y N X

ORIGINAL

<b>SAMPLER NAME AND SIGNATURE</b>	
PRINT Name of SAMPLER: <u>Jordan Floyd</u>	DATE Signed (MM/DD/YYYY): <u>10/17</u>
SIGNATURE of SAMPLER: <i>[Signature]</i>	

\*Important Note: By signing this form you are accepting Pace's NCT 30 day payment terms and agreeing to file charges of 1.5% per month (up to 6% per year) on any late payments.



18856

APR 27 2018

**BRYAN SHANE  
MIDLANDS ENVIRONMENTAL CONSULTANTS  
PO BOX 854  
LEXINGTON SC 29071**



Re: **Site Specific Work Plan Requests**  
Groundwater Sampling Contract  
Solicitation #IFB-5400012906; PO #4600603934

Dear Mr. Shane:

In accordance with bid solicitation # IFB-5400012906 and the UST Management Division Quality Assurance Program Plan (QAPP), Revision 3.1 it is requested that you submit a Site Specific Work Plan (SSWP) for each site attached:

UST Permit #	Site Name	Project Manager
09315	General Store	Steven Martin
09310	Tega Cay Recreation	Steven Martin
12371	Blacks Car Care	Kathryn Butler
18856	Steady Simmons	Kathryn Butler
15475	Rockland Parking Lot	Kathryn Butler
01253	Macks Camp	Kathryn Butler
00849	Hilda Garage	Cody Heinze
09395	Winn Express	Carolyn Moores
11893	G's Country Store	Carolyn Moores
05313	A & G Grocery	Cody Heinze
19646	Former Dabneys Amoco	Cody Heinze

The SSWPs must be submitted **within 15 business days** to my attention. The project manager for each site will issue a notice to proceed once the plan has been reviewed and approved.

Please contact me with the sampling schedule before commencing work at these facilities. In addition, a weekly update for each site is required to be submitted via e-mail to the site's project manager and myself. If you have any questions or need further assistance, please contact me at (803) 898-0607 or thrasham@dhec.sc.gov.

Sincerely,

A handwritten signature in black ink, appearing to read 'Ashleigh Thrash', written over a horizontal line.

For:  
Ashleigh Thrash, Hydrogeologist  
Corrective Action & Quality Assurance Section  
UST Management Division  
Bureau of Land & Waste Management

enc: Site Information Packages

cc: Technical Files



UNDERGROUND STORAGE TANK PROGRAM  
BUREAU OF LAND AND WASTE MANAGEMENT  
2600 Bull Street, Columbia, South Carolina 29201  
Telephone: 803-898-2544

**MEMORANDUM**

TO: Midlands Environmental Consultants, Inc

FROM: Kathryn H. Butler

RE: Site Specific Work Plan Request

Facility Name: STEADY SIMMONS

Permit Number: 18856

County: Jasper

Work To Be Completed: Sample all monitoring wells and water supply wells associated with the site. Purge wells in which the water table does not bracket the screen. DHEC is currently pursuing a Right of Entry form.

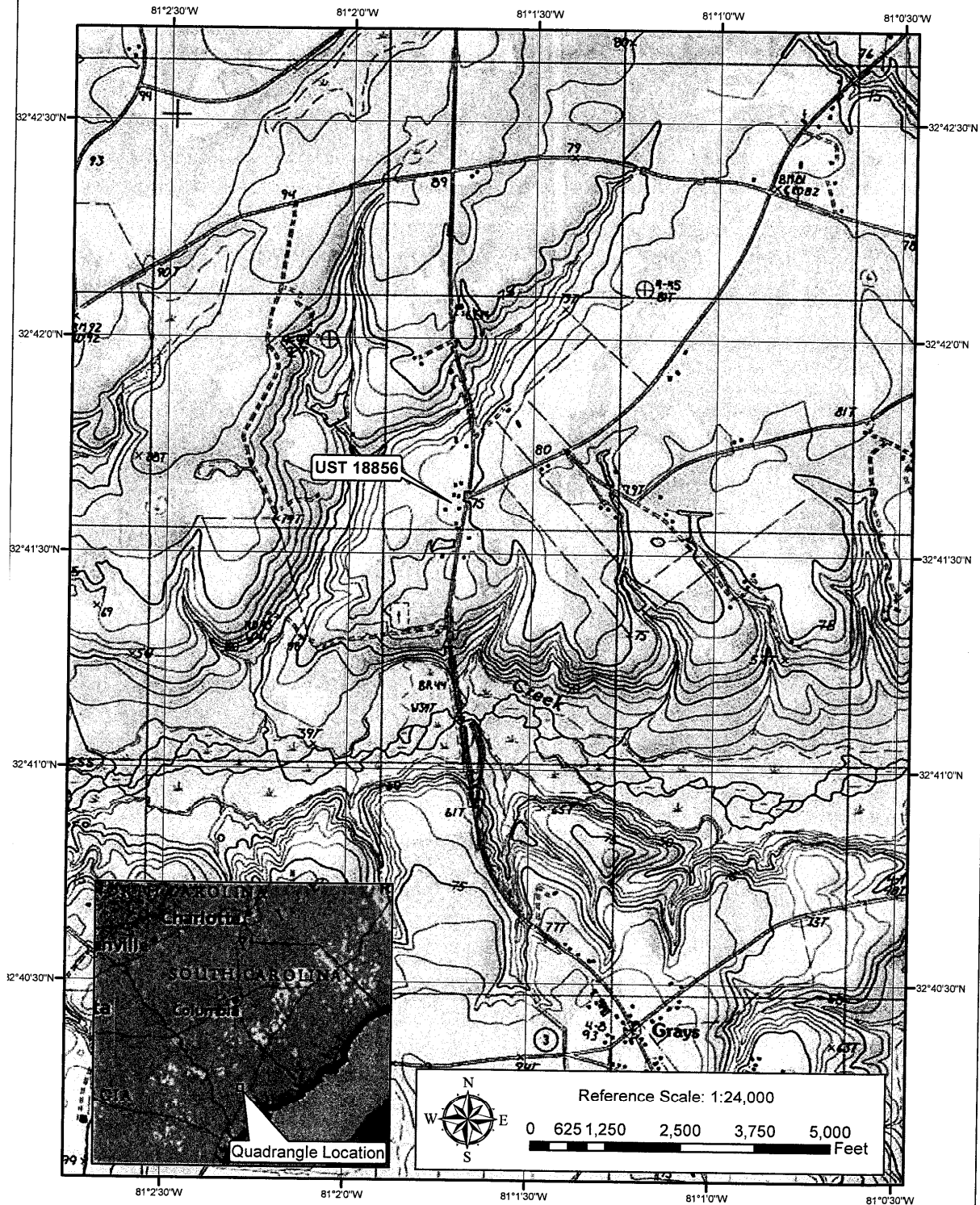
Total Number of Monitoring Well Samples: 28

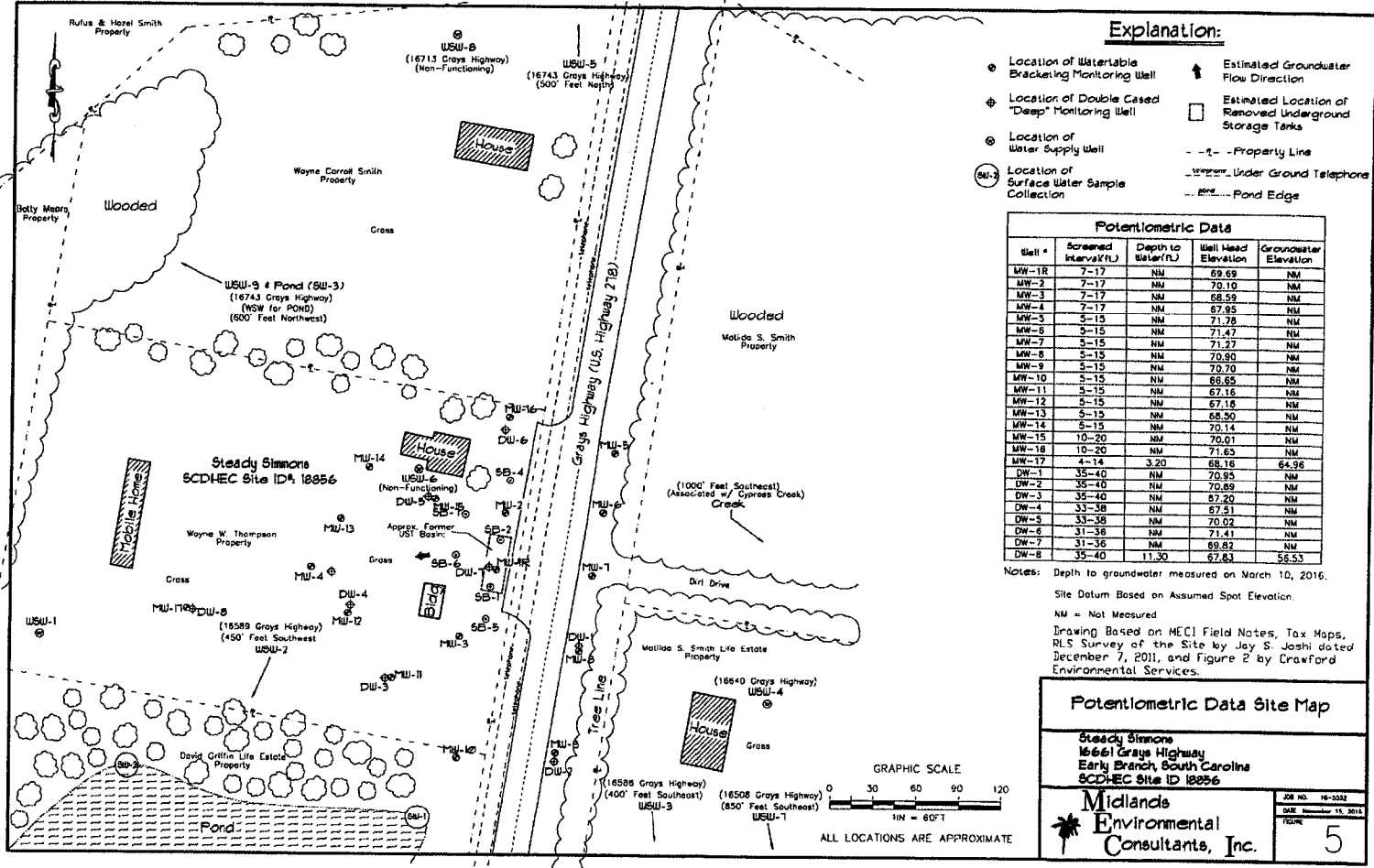
Analysis Being Requested: BTEXNM, 1,2 DCA, 8-Oxys and EDB (8260 & 8011)

Total Number of Water Supply Well Samples: 9

Analysis Being Requested: BTEXNM, 1,2 DCA, 8-Oxys and EDB (524.2, 504.1 & 8260)

# Steady Simmons UST Permit 18856





**3CDHEC UST Management Tracking**

**BOTH billable and unbillable tanks**

**Site Information for N-18856 Facility: STEADY SIMMONS**

<u>Bus.</u>	16661 GRAYS HWY	<u>Phone</u>	
<u>Address</u>	EARLY BRANCH SC 29916-8016	<u>County</u>	Jasper
<u>Category</u>	Retail Sales	<u>Last Inspection</u>	
<u>Tank Owner</u>	SIMMONS, STEADY	<u>Trans. of Ownership</u>	
<u>Bus.</u>		<u>Financial Responsibility</u>	
<u>Address</u>		<u>Financial Mechanism</u>	<u>Expiration Date</u>
<u>Operator</u>		<u>Training Date</u>	
<u>Bus.</u>			
<u>Address</u>		<u>Phone</u>	
<u>Land Owner</u>	THOMPSON, WAYNE		
<u>Bus.</u>	16657 GRAYS HWY		
<u>Address</u>	EARLY BRANCH SC 29916	<u>Phone</u>	803-398-7718

<u>Tanks</u>	2	<u>Billable</u>	0	<u>Aband.</u>	2	<u>Other</u>	0
		<u>Compliance Operator(s)</u>				<u>ID</u>	

Significant? Y Memo Date: 03/15/18

Site Memo: Initial phone call with the land owner Wayne W. Thompson was March 13, 2018. Mr. Thompson had questions about the site status and wanted to know when he would be able to remove the wells located on his property. I let him know that I would be speaking with my supervisor about his site to determine if we could put it into NFA. I then proceeded to compile the well data tables March 14 and determined that the fluctuation of groundwater would not allow us to currently close out the site. I need to make sure that this site will be sampled quarterly for the next two years to NFA. After making this determination and speaking with Ashleigh Thrash about the options I left a message on Mr. Thompson's voicemail. March 15 I received a follow up phone call from Mr. Thompson and we discussed the groundwater sampling plan going forward. He was not happy with the two year plan and informed me that he would be speaking with his lawyer. Mr. Thompson has also refused to sign a Right of Entry form and does not plan on signing one in the future.

Significant? Y Memo Date: 11/19/13

Site Memo: The owner is defunct. If there is to a release under Steady Simmons, it needs to be designated orphan site.

Significant? N Memo Date: 01/31/14

Site Memo: There was a \$1,195.00 payment showing towards the 25k deductible in error. Deductible cost was changed back to 25k, RP never made a payment toward the deductible.

Significant? Y Memo Date: 10/31/02

Site Memo: Per Connie Anderson these tanks were RNU tanks based on the observations of the inspector, Andy Ruocco, at the site. No fees will be assessed.

<u>Rel. No.</u>	1	<u>Reported</u>	09/09/02	<u>Status</u>	Confirmed - Active	<u>Product</u>	Petroleum	<u>Compl Required</u>	Y
<u>Active Tnks</u>		<u>NFA</u>		<u>Fin. Type</u>	With SUPERB Cos	<u>RBCA / Score</u>	2BB 83	<u>Compliance Met</u>	Y
		<u>Confirmed</u>	10/31/02	<u>Emer. Resp.</u>		<u>Superb Qualified</u>		<u>Compliance Met Dt</u>	11/06/02

SDHEC UST Management Tracking  
 Site Information for N-18856 Facility: STEADY SIMMONS

BOTH billable and unbillable tanks

<u>CU Init</u>	08/07/03	<u>Abate. Met</u>	07/16/02	<u>Superb Determ. Dt</u>		<u>Fin Res Mechanism</u>	
<u>CU Compl.</u>		<u>Transferred</u>		<u>Project Manager</u>	BUTLER KATHY RN H		
<u>CU &gt; MCL</u>		<u>Source</u>	UST	<u>Responsible Party</u>	SIMMONS STEADY		

<u>Ranking</u>	<u>SCRBCA:</u>	2BB - Watersupply wells < 1000 feet dwn grade				<u>FP Thick:</u>	Unknown	
<u>Rel. No.</u>	1							
<u>Analyticals</u>	<u>Contaminant</u>	<u>ug/L</u>	<u>RBSL</u>	<u>Score</u>	<u>SSTL's</u>	<u>Other Contaminants</u>	<u>ug/L</u>	<u>SSTL's</u>
	Benzene	346	5	69	1176	1,2-	5	
	Toluene	2990	1000	3	26540	DICHLOROETHANE		
	Ethylbenzene	658	700	1	3700	<		
	Xylene	3880	10000	0	21680	@ 10' SAND 74%, SILT 6%, CLAY 20%		
	Naphthalene	238	25	10	740	@ 30' SAND 76%, SILT 7%, 18% CLAY		
	MTBE	15.8	40	0	1041	EDB (MW-2)	1.2	2.22
						LEAD	22.2	
						ON SITE WATER		
						SUPPLY WELL WSW- 1 & WSW-6		
						TAA	1000	
						<		
						TBA	1000	
						<		
<u>Receptor Ttype:</u>	PRIVATE	<u>Ground Water Flow:</u>	W					
<u>Distanced to Receptor:</u>	90	<u>Seepage Velocity:</u>	7.68					
<u>GW Depth:</u>	.02							

<u>SuperB</u>	<u>Original Qualified Date:</u>	
<u>Check List</u>	<u>Release Reported:</u>	09/09/02
<u>Rel. No.</u>	<u>Deductible Group from Release Report Date:</u>	25K
	<u>All tanks Registered? Tanks must be registered Before eligible.</u>	
	<u>Fees Paid to date?</u>	
Y	<u>Contamination requiring Remediation confirmed?</u>	
	<u>Enviro Company</u>	
	<u>Enviro Insurance?</u>	
	<u>A written statement of No Insurance dated:</u>	
	<u>Abatement Met:</u>	07/16/02
	<u>Abatement Method:</u>	Permanently closed
	<u>Approved by:</u>	
	<u>Approved date:</u>	
	<u>Qualified?</u>	

<u>Tank No.</u>	1	<u>Const.</u>	<u>Class</u>	N	<u>Tank Const. Mat.</u>	SL	<u>Pipe Const. Mat.</u>	
		<u>Operate</u>	<u>T Status</u>	ABD	<u>Tank Protect.</u>	CP	<u>Pipe Protect.</u>	CP
		<u>Notify</u>	<u>Capacity</u>	1,000	<u>Tank Cont. Meth.</u>		<u>Pipe Cont. Meth.</u>	
		<u>Variance</u>	<u>Product</u>	GN	<u>Overfill Type</u>	Ver	<u>Piping Type</u>	
		<u>Compl.</u>	<u>C Status</u>		<u>Age @ Notif.</u>	0	<u>Dist. to Well</u>	
		<u>Spill Det.</u>	<u>Left Gal.</u>		<u>Owner @ ABD</u>	THOMPSON, WAYNE	<u>Last Use</u>	01/01/86
		<u>Aband.</u>	<u>Method</u>	RG	<u>CAS No.</u>	Chem.		
		<u>Under Dispenser Cont.</u>	N	<u>Drop Tube</u>	N	<u>Tank Leak Det.</u>	<u>Pipe Leak Det.</u>	



SCDHEC UST Management Tracking

BOTH billable and unbillable tanks

Site Information for N-18856 Facility: STEADY SIMMONS

<u>Tank No.</u>	2	<u>Const.</u>	<u>Class</u>	N	<u>Tank Const. Mat.</u>	SL	<u>Pipe Const. Mat.</u>		
		<u>Operate</u>	<u>T Status</u>	ABD	<u>Tank Protect.</u>	CP	<u>Pipe Protect.</u>	CP	
		<u>Notify</u>	07/16/02	<u>Capacity</u>	550	<u>Tank Cont. Meth.</u>		<u>Pipe Cont. Meth.</u>	
		<u>Variance</u>		<u>Product</u>	GN	<u>Overfill Type</u>	Ver	<u>Piping Type</u>	
		<u>Compl.</u>		<u>C Status</u>		<u>Age @ Notif.</u>	0	<u>Dist to Well</u>	
		<u>Spill Det.</u>		<u>Left Gal.</u>		<u>Owner @ ABD</u>	THOMPSON, WAYNE	<u>Last Use</u>	01/01/86
		<u>Aband.</u>	07/16/02	<u>Method</u>	RG	<u>CAS No.</u>	<u>Chem.</u>		
		<u>Under Dispenser Cont.</u>	N	<u>Drop Tube</u>	N	<u>Tank Leak Det.</u>		<u>Pipe Leak Det.</u>	



APR 27 2018

**MR WAYNE THOMPSON  
16657 GRAYS HIGHWAY  
EARLY BRANCH SC 29916-8016**

Re: **Request for Property Access - Second Request**  
Stead Simmons, 16661 Grays Highway, Early Branch, SC  
UST Permit #18856  
UST Division Letter dated August 21, 2013  
Jasper County

Dear Mr. Thompson:

The Underground Storage Tank (UST) Management Division of the South Carolina Department of Health and Environmental Control (DHEC) requested access to your property in August 2013 to enable necessary assessment activities. The scope of work is for Midlands Environmental Consultants, Inc. to collect groundwater samples from the monitoring wells to in order to fully assess the petroleum release. To date a reply has not been received. For reference a copy of the letters are attached for your information.

The Division has the authority pursuant to the State Underground Petroleum Environmental Response Bank Act (S.C. Code Ann. § 44-2-10 *et seq.* (Supp. 1996)) and the UST Control Regulations (S.C. Code Ann. Regs. 61-92 (Supp.1996)) to hold the UST owner/ operator, responsible for addressing the existing contamination. The Division also has authority under the Pollution Control Act (S.C. Code Ann. § 48-1-10 *et seq.* (1976)), as amended, to require each and every individual property owner to abate pollution on his or her own property. Indeed, the South Carolina Supreme Court has held landowners strictly liable under the Pollution Control Act for contamination emanating from their property. The Division believes it to be in your best interest to allow the UST Division and our contractor Midlands Environmental Consultants, Inc. to address the problem as we, until now, have done. There will be no cost to you in allowing Midlands Environmental Consultants Inc. to access your property for environmental activities. If you deny access to your property, you may be required to conduct environmental assessment activities to include cleanup activities at your own expense.

The UST Management Division requests that you allow assessment activities to proceed in a timely manner and return the required permission form. **Please sign the enclosed permission form and return it to my attention on or before Friday, May 11, 2018. If not, the Division may pursue a court order to gain access to the property.** Please be advised if the UST Division obtains a court order to conduct the work, assessment activities may be conducted at a time that may be disruptive to you or your tenants.

Your cooperation is greatly appreciated. If you have any questions, please contact me at (803) 898-0606 or e-mail me at [butlerkh@dhec.sc.gov](mailto:butlerkh@dhec.sc.gov).

Sincerely,

Kathryn H. Butler, Hydrogeologist  
Corrective Action and Field Support Section  
Underground Storage Tank Management Division  
Bureau of Land and Waste Management

enc: UST Division Letter dated August 21, 2013  
Permission Form  
cc: Technical file (w/o enc.)

**RIGHT-OF-ENTRY FORM  
PROPERTY OWNER**

UST Permit # 18856

**If you are the Property Owner or are the authorized representative for that person, but did not own the former or existing underground storage tanks at the time the release was reported, please complete this form.**

I, \_\_\_\_\_, certify that I am the legal owner of the property identified below or serve as the authorized representative for the property owner. I authorize the South Carolina Department of Health and Environmental Control (DHEC), or a contractor selected by DHEC, to enter this property at reasonable times only to conduct assessment and corrective action activities, as required. The contractor will be designated as the contractor for the UST owner or operator for only the required environmental site rehabilitation activities. Compensation to the contractor will be from the SUPERB Account and I will have no obligation to pay the contractor. I understand that DHEC or its contractor will notify me of all activities that are necessary prior to their initiation and will promptly provide to me a summary of the data upon request.

Name of Facility Steady Simmons Phone # \_\_\_\_\_

Street Address of Facility: 16661 Grays Highway

Town, City, District, Suburb Early Branch, SC 29916-8016

Name of nearest intersecting street, road, highway, alley \_\_\_\_\_

Is this facility within the city limits? (yes or no) \_\_\_\_\_

Does a public water or sewer utility service this facility? (yes or no) \_\_\_\_\_

If no, please provide the name and phone number of a person that we can contact that can assist in the location of private water and septic tank lines \_\_\_\_\_,  
phone number \_\_\_\_\_

Is the property currently leased or rented to someone? (yes or no) \_\_\_\_\_

If yes, please provide their name \_\_\_\_\_ and phone number \_\_\_\_\_  
\_\_\_\_\_ and let them know about the pending site rehabilitation activities. If vehicles or other mobile structures are parked over the monitoring wells, they should be moved before DHEC's contractor arrives at the site.

NAME of Property owner (Please Print): \_\_\_\_\_

Phone Number (home) \_\_\_\_\_ (work) \_\_\_\_\_

Current Mailing Address: \_\_\_\_\_

Signature of Property Owner: \_\_\_\_\_

Witness: \_\_\_\_\_

Date: \_\_\_\_\_ Month \_\_\_\_\_ Day \_\_\_\_\_ Year \_\_\_\_\_

**Please return to Kathryn H. Butler, UST Management Division, 2600 Bull Street, SC 29201**

Disclaimer: Personal Information provided on this document is subject to public scrutiny or release.

RIGHT-OF-ENTRY FORM  
PROPERTY OWNER

UST Permit # 18856



If you are the Property Owner or are the authorized representative for that person, but did not own the former or existing underground storage tanks at the time the release was reported, please complete this form.

I, WAYNE THOMPSON, certify that I am the legal owner of the property identified below or serve as the authorized representative for the property owner. I authorize the South Carolina Department of Health and Environmental Control (DHEC), or a contractor selected by DHEC, to enter this property at reasonable times only to conduct assessment and corrective action activities, as required. The contractor will be designated as the contractor for the UST owner or operator for only the required environmental site rehabilitation activities. Compensation to the contractor will be from the SUPERB Account and I will have no obligation to pay the contractor. I understand that DHEC or its contractor will notify me of all activities that are necessary prior to their initiation and will promptly provide to me a summary of the data upon request.

Name of Facility Steady Simmons Phone # \_\_\_\_\_

Street Address of Facility: 16661 Grays Highway

Town, City, District, Suburb Early Branch, SC 29916-8016

Name of nearest intersecting street, road, highway, alley U.S. Hwy # 278

Is this facility within the city limits? (yes or no) NO

Does a public water or sewer utility service this facility? (yes or no) NO

If no, please provide the name and phone number of a person that we can contact that can assist in the location of private water and septic tank lines WAYNE THOMPSON, phone number (803) 398-7718.

Is the property currently leased or rented to someone? (yes or no) NO

If yes, please provide their name N/A and phone number N/A and let them know about the pending site rehabilitation activities. If vehicles or other mobile structures are parked over the monitoring wells, they should be moved before DHEC's contractor arrives at the site.

NAME of Property owner (Please Print): WAYNE THOMPSON

Phone Number (home) <sup>(cell)</sup> (803) 398-7718 (work) (NONE)

Current Mailing Address: 16657 GRAYS HIGHWAY, EARLY BRANCH, SC 29916-8016

Signature of Property Owner [Signature]

Witness: [Signature]

Date: May 10, 2018 Month \_\_\_\_\_ Day \_\_\_\_\_ Year \_\_\_\_\_

Please return to Kathryn H. Butler, UST Management Division, 2600 Bull Street, SC 29201

Disclaimer: Personal Information provided on this document is subject to public scrutiny or release.



# JOHNSON & DAVIS, PA

## ATTORNEYS AND COUNSELORS AT LAW

BARRY L. JOHNSON\*  
HUTSON S. DAVIS, JR. \*\*  
S. HARRISON WILLIAMS

\* Certified S C Mediator and Arbitrator  
\*\* Certified S C Mediator

THE VICTORIA BUILDING  
SUITE 200  
10 PINCKNEY COLONY ROAD  
BLUFFTON, SC 29909

TELEPHONE (843) 815-7121  
TELEFAX (843) 815-7170

BARRY L. JOHNSON  
BARRY@JD-PA.COM

May 10, 2018

Kathryn H. Butler, Hydrogeologist  
Corrective Action and Field Support Section  
Underground Storage Tank Management Division  
Bureau of Land and Waste Management  
2600 Bull Street, Columbia, SC 29201  
Columbia, SC 29211



RE: REQUEST FOR PROPERTY ACCESS -SECOND REQUEST  
Stead Simmons, 16661 Grays Highway, Early Branch, SC  
UST Permit #18856  
UST Division Letter dated August 21, 2013  
Jasper County

Dear Ms. Butler.:

I represent Mr. Wayne Thompson regarding your letter to him dated April 25, 2018, and I write in response to your letter. Your office appears closed today, and I have no fax number for you. As you requested, enclosed please find the completed, signed RIGHT-OF-ENTRY FORM - PROPERTY OWNER. Please acknowledge your timely receipt of this FORM.

We do have a couple of other requests. Mr. Thompson has no record or recollection of having received your referenced letter dated August 21, 2013, so would you please provide me with a copy of that letter and any enclosures associated with it. Also, would you please provide me copies of the most-recently available twelve months of reports on the monitoring wells at this site. Finally, I respectfully request that the Bureau provide me a timeline (with guidelines) for discontinuance of well monitoring on this site and closure of the monitoring wells.

I look forward to working with you to bring this matter to conclusion and I look forward to your response.

Sincerely,

  
Barry L. Johnson

cc: Mr. Wayne Thompson

RIGHT-OF-ENTRY FORM  
PROPERTY OWNER

UST Permit # 18856

If you are the Property Owner or are the authorized representative for that person, but did not own the former or existing underground storage tanks at the time the release was reported, please complete this form.

I, WAYNE THOMPSON, certify that I am the legal owner of the property identified below or serve as the authorized representative for the property owner. I authorize the South Carolina Department of Health and Environmental Control (DHEC), or a contractor selected by DHEC, to enter this property at reasonable times only to conduct assessment and corrective action activities, as required. The contractor will be designated as the contractor for the UST owner or operator for only the required environmental site rehabilitation activities. Compensation to the contractor will be from the SUPERB Account and I will have no obligation to pay the contractor. I understand that DHEC or its contractor will notify me of all activities that are necessary prior to their initiation and will promptly provide to me a summary of the data upon request.

Name of Facility Steady Simmons Phone # \_\_\_\_\_

Street Address of Facility: 16661 Grays Highway

Town, City, District, Suburb Early Branch, SC 29916-8016

Name of nearest intersecting street, road, highway, alley U.S. Hwy # 278

Is this facility within the city limits? (yes or no) NO

Does a public water or sewer utility service this facility? (yes or no) NO

If no, please provide the name and phone number of a person that we can contact that can assist in the location of private water and septic tank lines WAYNE THOMPSON,  
phone number (803) 398-7718.

Is the property currently leased or rented to someone? (yes or no) NO

If yes, please provide their name N/A and phone number N/A  
\_\_\_\_\_ and let them know about the pending site rehabilitation activities. If vehicles or other mobile structures are parked over the monitoring wells, they should be moved before DHEC's contractor arrives at the site.

NAME of Property owner (Please Print): WAYNE THOMPSON

Phone Number (home) <sup>(cell)</sup> (803) 398-7718 (work) (NONE)

Current Mailing Address: 16657 GRAYS HIGHWAY, EARLY BRANCH, SC  
29916-8016

Signature of Property Owner Wayne Thompson

Witness: Bryant Johnson

Date: May 10, 2018 Month \_\_\_\_\_ Day \_\_\_\_\_ Year \_\_\_\_\_



Please return to Kathryn H. Butler, UST Management Division, 2600 Bull Street, SC 29201

Disclaimer: Personal Information provided on this document is subject to public scrutiny or release.



May 15, 2018



Ms. Ashleigh Thrash, Hydrogeologist  
Corrective Action & Field Support Section  
Underground Storage Tank Management Division  
Bureau of Land and Waste Management  
South Carolina Department of Health  
and Environmental Control  
2600 Bull Street  
Columbia, South Carolina 29201

Subject: Site-Specific Work Plan  
Steady Simmons  
Early Branch, South Carolina  
SCDHEC Site ID Number 18856  
MECI Project Number 18-6432  
Certified Site Rehabilitation Contractor UCC-0009


Dear Ms. Thrash,


Midlands Environmental Consultants Inc. (MECI) is pleased to submit the attached Site-Specific Work Plan for the referenced site.

On May 11, 2018, MECI personnel performed a site visit to the subject site to evaluate site conditions, locate monitoring wells and identify potential problems for future sampling activities.

If you have any question or comments please feel free to contact us at 803-808-2043.

Sincerely,  
**Midlands Environmental Consultants, Inc.**

  
Kyle V. Pudney  
Project Biologist

  
Jeff L. Coleman  
Senior Scientist



**Site-Specific Work Plan for Approved ACQAP  
Underground Storage Tank Management Division**

To: Ms. Kathryn Butler (SCDHEC Project Manager)  
 From: Jeff L. Coleman (Contractor Project Manager)  
 Contractor: Midlands Environmental Consultants, Inc. UST Contractor Certification Number: 009

Facility Name: Steady Simmons UST Permit #: 18856  
 Facility Address: 1661 Grays Highway, Early Branch, SC 29916  
 Responsible Party: Steady Simmons Phone: N/A  
 RP Address: N/A  
 Property Owner (if different): Wayne Thompson  
 Property Owner Address: 16657 Grays Highway, Early Branch, SC 29916  
 Current Use of Property: Abandoned Property

**Scope of Work** (Please check all that apply)  
 IGWA  Tier II  Groundwater Sampling  GAC  
 Tier I  Monitoring Well Installation  Other \_\_\_\_\_

**Analyses** (Please check all that apply)  
 Groundwater/Surface Water:  
 BTEXNMDCA (8260B)  Lead  BOD  Methane  
 Oxygenates (8260B)  8 RCRA Metals  Nitrate  Ethanol  
 EDB (8011)  TPH  Sulfate  Dissolved Iron  
 PAH (8270D)  pH  Other \_\_\_\_\_  
 Drinking Water Supply Wells:  
 BTEXNMDCA (524.2)  Mercury (200.8 245.1 or 245.2)  EDB (504.1)  
 Oxygenates & Ethanol (8260B)  RCRA Metals (200.8)  
 Soil:  
 BTEXNM  Lead  RCRA Metals  TPH-DRO (3550B/8015B)  Grain Size  
 PAH  Oil & Grease (9071)  TPH-GRO (5030B/8015B)  TOC  
 Air:  
 BTEXN

**Sample Collection** (Estimate the number of samples of each matrix that are expected to be collected.)  
 \_\_\_\_\_ Soil      9 Water Supply Wells      \_\_\_\_\_ Air      2 Field Blank  
 28 Monitoring Wells      3 Surface Water      3 Duplicate      2 Trip Blank

**Field Screening Methodology**  
 Estimate number and total completed depth for each point, and include their proposed locations on the attached map.  
 # of shallow points proposed: \_\_\_\_\_ Estimated Footage: \_\_\_\_\_ feet per point  
 # of deep points proposed: \_\_\_\_\_ Estimated Footage: \_\_\_\_\_ feet per point  
 Field Screening Methodology: \_\_\_\_\_

**Permanent Monitoring Wells**  
 Estimate number and total completed depth for each well, and include their proposed locations on the attached map.  
 # of shallow wells: \_\_\_\_\_ Estimated Footage: \_\_\_\_\_ feet per point  
 # of deep wells: \_\_\_\_\_ Estimated Footage: \_\_\_\_\_ feet per point  
 # of recovery wells: \_\_\_\_\_ Estimated Footage: \_\_\_\_\_ feet per point  
 Comments, if warranted:  
 \_\_\_\_\_  
 \_\_\_\_\_



UST Permit #: <u>18856</u> Facility Name: <u>Steady Simmons</u>	
<b>Implementation Schedule</b> (Number of calendar days from approval) Field Work Start-Up: <u>5/15/2018</u> Field Work Completion: <u>6/15/2018</u> Report Submittal: <u>7/4/5/2018</u> # of Copies Provided to Property Owners: <u>0</u>	
<b>Aquifer Characterization</b> Pump Test: <input type="checkbox"/> Slug Test: <input type="checkbox"/> (Check one and provide explanation below for choice) _____ _____	
<b>Investigation Derived Waste Disposal</b> Soil: _____ Tons Purge Water: <u>200.0</u> Gallons Drilling Fluids: _____ Gallons Free-Phase Product: _____ Gallons	
<b>Additional Details For This Scope of Work</b> For example, list wells to be sampled, wells to be abandoned/repared, well pads/bolts/caps to replace, details of AFVR event, etc. -During the initial site visit, all wells were located. A total of twenty bolts are needed to properly secure wells at the subject site. -Only wells in which the water does not bracket the screen will be purged prior to sample collection and samples analyzed for BTEXNM, 8-OXY, 1,2-DCA and EDB. -Water supply wells will be sampled for BTEXNM, DCA (524.2) 8-Oxy's (8260B), and EDB (804.1) _____ _____ _____	
<b>Compliance With Annual Contractor Quality Assurance Plan (ACQAP)</b> <u>Yes</u> Laboratory as indicated in ACQAP? (Yes/No) If no, indicate laboratory information below. Name of Laboratory: _____ SCDHEC Certification Number: _____ Name of Laboratory Director: _____  <u>N/A</u> Well Driller as indicated in ACQAP? (Yes/No) If no, indicate driller information below. Name of Well Driller: _____ SCLLR Certification Number: _____  <u>None</u> Other variations from ACQAP. Please describe below. _____ _____ _____	
<b>Attachments</b> 1. Attach a copy of the relevant portion of the USGS topographic map showing the site location. 2. Prepare a site base map. This map must be accurately scaled, but does not need to be surveyed. The map must include the following: North Arrow Proposed monitoring well locations Location of property lines Legend with facility name and address, UST permit number, and bar scale Location of buildings Streets or highways (indicate names and numbers) Previous soil sampling locations Location of all present and former ASTs and USTs Previous monitoring well locations Location of all potential receptors Proposed soil boring locations 3. Assessment Component Cost Agreement, SCDHEC Form D-3664	



**ASSESSMENT COMPONENT COST AGREEMENT  
SOUTH CAROLINA**

Department of Health and Environmental Control  
Underground Storage Tank Management Division  
State Underground Petroleum Environmental Response Bank Account  
**CONTRACT PO NUMBER 4600559329**

Facility Name: Steady Simmons

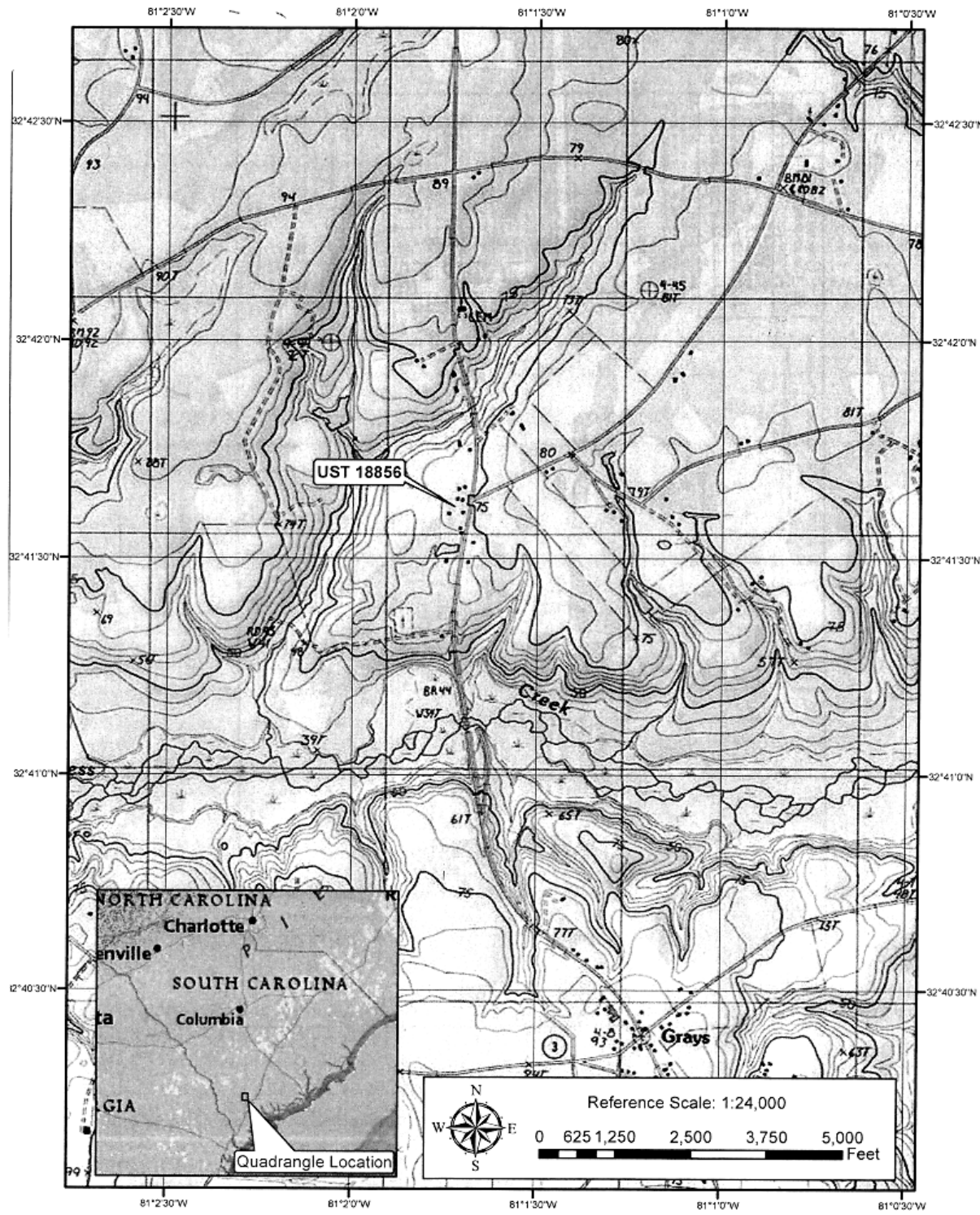
UST Permit #: 18856

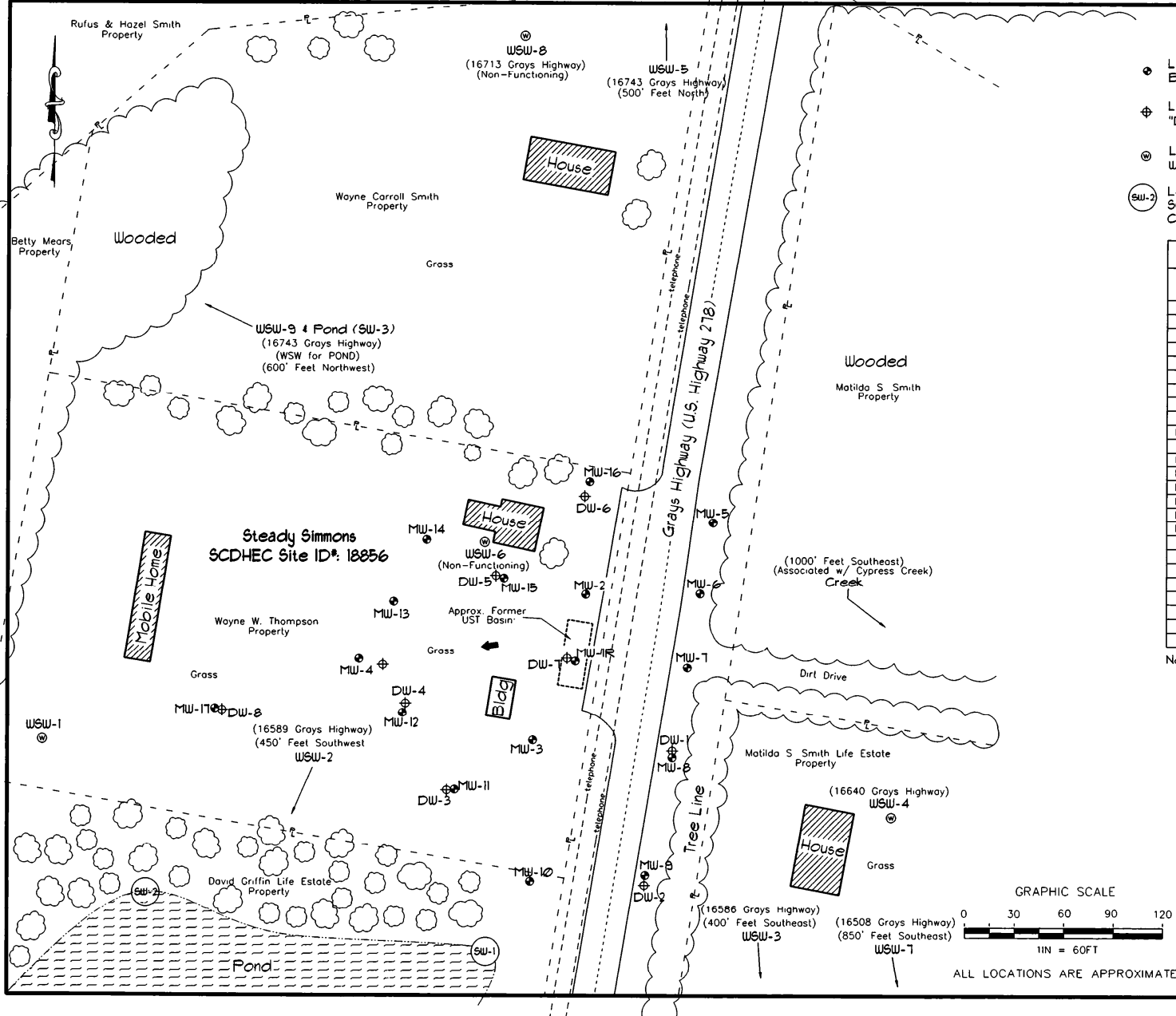
Cost Agreement #: Proposal

ITEM	QUANTITY	UNIT	UNIT PRICE	TOTAL
<b>1. Plan*</b>				
A1. Site Specific Work Plan	1	each	\$1.00	\$1.00
B1. Tax Map		each	\$1.00	\$0.00
C1. QAPP Appendix B		each	\$1.00	\$0.00
2. A1. Receptor Survey		each	\$1.00	\$0.00
<b>4. Mob/Demob</b>				
B1. Personnel	2	each	\$1.00	\$2.00
<b>10. Groundwater Sample Collection / Gauge Depth to Water or Product (Each)</b>				
A1. Groundwater Purge	8	per well	\$36.50	\$292.00
B1. Air or Vapors		samples	\$1.00	\$0.00
C1. Water Supply	9	samples	\$18.00	\$162.00
D1. Groundwater No Purge or Duplicate	20	per well	\$27.50	\$550.00
E1. Gauge Well only		per well	\$1.00	\$0.00
F1. Sample Below Product		per well	\$1.00	\$0.00
G1. Pasive Diffusion Bag		each	\$20.00	\$0.00
H1. Field Blank	2	each	\$1.00	\$2.00
<b>17. Disposal* (gallons or tons)</b>				
AA. Disposal/Water	200	gallons	\$1.00	\$200.00
BB. Free Product		gallons	\$0.05	\$0.00
Note: Rate includes costs or rental of suitable container(s)				
23. D. Site Reconnaissance	1	each	\$1.00	\$1.00
<b>18. Miscellaneous</b>				
GW Contour Map		each	\$25.00	\$0.00
Isopleth Map		each	\$25.00	\$0.00
High-Strength Well Pad Replacement		each	\$75.00	\$0.00
Data Table		each	\$50.00	\$0.00
Low Flow Sampling		per well	\$55.00	\$0.00
<b>25. Well Repair</b>				
B1. Repair 2x2 MW Pad		each	\$50.00	\$0.00
C1. Repair 4x4 MW Pad		each	\$50.00	\$0.00
D1. Replace Well Vault		each	\$50.00	\$0.00
E. Replace well cover		each	\$25.00	\$0.00
F1. Replace well cover bolts	20	each	\$2.60	\$52.00
G. Replace locking well cap & lock		each	\$15.00	\$0.00
K1. Replace Missing Well ID Plate		each	\$10.00	\$0.00
<b>TOTAL</b>				<b>\$1,261.00</b>

\*The appropriate mobilization cost can be added to complete these tasks, as necessary

# Steady Simmons UST Permit 18856





**Explanation:**

- Location of Water Table Bracketing Monitoring Well
- ⊕ Location of Double Cased "Deep" Monitoring Well
- ⊙ Location of Water Supply Well
- ⊙(SW-2) Location of Surface Water Sample Collection
- ↑ Estimated Groundwater Flow Direction
- Estimated Location of Removed Underground Storage Tanks
- - - Property Line
- Under Ground Telephone
- Pond Edge

Potentiometric Data				
Well #	Screened Interval(ft.)	Depth to Water(ft.)	Well Head Elevation	Groundwater Elevation
MW-1R	7-17	NM	69.69	NM
MW-2	7-17	NM	70.10	NM
MW-3	7-17	NM	68.59	NM
MW-4	7-17	NM	67.95	NM
MW-5	5-15	NM	71.78	NM
MW-6	5-15	NM	71.47	NM
MW-7	5-15	NM	71.27	NM
MW-8	5-15	NM	70.90	NM
MW-9	5-15	NM	70.70	NM
MW-10	5-15	NM	66.65	NM
MW-11	5-15	NM	67.16	NM
MW-12	5-15	NM	67.18	NM
MW-13	5-15	NM	68.50	NM
MW-14	5-15	NM	70.14	NM
MW-15	10-20	NM	70.01	NM
MW-16	10-20	NM	71.65	NM
MW-17	4-14	3.20	68.16	64.96
DW-1	35-40	NM	70.95	NM
DW-2	35-40	NM	70.89	NM
DW-3	35-40	NM	67.20	NM
DW-4	33-38	NM	67.51	NM
DW-5	33-38	NM	70.02	NM
DW-6	31-36	NM	71.41	NM
DW-7	31-36	NM	69.82	NM
DW-8	35-40	11.30	67.83	56.53

Notes: Depth to groundwater measured on March 10, 2016

Site Datum Based on Assumed Spot Elevation

NM = Not Measured

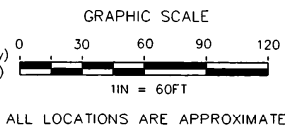
Drawing Based on MECI Field Notes, Tax Maps, RLS Survey of the Site by Jay S. Joshi dated December 7, 2011, and Figure 2 by Crawford Environmental Services.

**Potentiometric Data Site Map**

**Steady Simmons**  
16661 Grays Highway  
Early Branch, South Carolina  
SCDHEC Site ID 18056

**Midlands Environmental Consultants, Inc.**

JOB NO 16-5552  
DATE November 15, 2016  
FIGURE **5**





**MR BRYAN SHANE PG  
MIDLANDS ENVIRONMENTAL CONSULTANTS  
PO BOX 854  
LEXINGTON SC 29071**

**JUN 06 2018**

Re: **Notice to Proceed-Site Specific Work Plan Approval**  
Groundwater Sampling Contract  
Solicitation #IFB-5400012906, PO #4600624358  
Steady Simmons, 16661 Grays Highway, Early Branch, SC  
UST Permit #18856; MECI CA#56570, PACE CA#56571  
Jasper County

Dear Mr. Shane:

In accordance with bid solicitation #IFB-5400012906 and the Underground Storage Tank (UST) Management Division Quality Assurance Program Plan (QAPP), the Site-Specific Work Plan has been reviewed and approved. In accordance with the approved QAPP, a status report of the project should be provided on a weekly basis via e-mail. If any quality assurance problems arise, you must contact me within 24 hours via phone or e-mail. In addition, a discussion of the problem(s) encountered, including quality assurance problems, the actions taken, and the results must be included in the final report submitted to the UST Management Division.

MECI will perform services at the site on behalf of the site's responsible party (RP); however, payment will be made from the SUPERB Account. Please coordinate access to the facility with the property owner. DHEC grants pre-approval for transportation of virgin petroleum impacted soil and groundwater from the referenced site to a permitted treatment facility. There can be no spillage or leakage in transport. All investigation-derived waste (IDW) must be properly contained and labeled prior to disposal. A copy of the disposal manifest and/or acceptance letter from the receiving facility that clearly designates the quantity received must be included with the final report. The SUPERB Account will not reimburse for transportation or treatment of soil and/or groundwater with concentrations below RBSLs.

**Please note, sampling should be conducted within 15 calendar days from the date of this letter. The final report is due within 3 weeks from the date the site is sampled. If the site is not sampled by the specified due date or the report is not received in the specified time period, a late fee may be imposed.** The final report should contain the requirements of Section III.2.15 of the bid solicitation. The final report should be submitted to Robert Dunn, the contract manager.

If you have any site-specific questions, please contact me at (803) 898-0606 or via e-mail at [butlerkh@dhec.sc.gov](mailto:butlerkh@dhec.sc.gov). If you have any contract specific questions, please contact Robert Dunn at (803) 898-0671 or via e-mail at [dunnra@dhec.sc.gov](mailto:dunnra@dhec.sc.gov).

Sincerely,

Kathryn H. Butler, Hydrogeologist  
Corrective Action & Field Support Section  
UST Management Division  
Bureau of Land & Waste Management

enc: Approved Cost Agreement (both CAs)

cc: Trey Carter, Pace Analytical Services, 9800 Kinsey Ave, Ste 100, Huntersville, NC, 28078 (w/app. CA)  
Technical Files (w/enc)

**Approved Cost Agreement      56570**

Facility: 18856    STEADY SIMMONS

BUTLERKH

PO Number:

<u>Task / Description</u>	<u>Categories</u>	<u>Item Description</u>	<u>Qty / Pct</u>	<u>Unit Price</u>	<u>Amount</u>
01 PLAN		A1 SITE SPECIFIC WORK PLAN	1.0000	\$1.000	1.00
04 MOB/DEMOB		B1 PERSONNEL	2.0000	\$1.000	2.00
10 SAMPLE COLLECTION		A1 GROUNDWATER (PURGE)	8.0000	\$36.500	292.00
		C1 WATER SUPPLY	9.0000	\$18.000	162.00
		D1 GROUNDWATER NO PURGE/DUPLICATE	26.0000	\$27.500	715.00
		H1 FIELD BLANK	4.0000	\$1.000	4.00
17 DISPOSAL		AA WASTEWATER	300.0000	\$1.000	300.00
23 EFR		D SITE RECONNAISSANCE	1.0000	\$1.000	1.00
25 WELL REPAIR		F1 REPLACE WELL COVER BOLTS	20.0000	\$2.600	52.00
<b>Total Amount</b>					<b>1,529.00</b>

**Approved Cost Agreement      56571**

Facility: 18856    STEADY SIMMONS

BUTLERKH

PO Number:

<u>Task / Description</u>	<u>Categories</u>	<u>Item Description</u>	<u>Qty / Pct</u>	<u>Unit Price</u>	<u>Amount</u>
11 ANALYSES					
	GW GROUNDWATER	A2 BTEXNM+OXYGS+1,2-DCA+ETH-8260B	32.0000	\$21.000	672.00
		F1 EDB BY 8011	31.0000	\$18.000	558.00
	WATER DRINKING WATER	L BTEXNM+1,2 DCA (524.2)	15.0000	\$36.000	540.00
		M 7-OXYGENATES & ETHANOL (8260B)	15.0000	\$13.000	195.00
		N EDB (504.1)	14.0000	\$18.000	252.00
		<b>Total Amount</b>			<b>2,217.00</b>



July 23, 2018

Mr. Robert A. Dunn, Hydrogeologist  
Corrective Action Section  
Underground Storage Management Division  
Bureau of Land and Waste Management  
South Carolina Department of Health  
and Environmental Control  
2600 Bull Street  
Columbia, South Carolina 29201



Subject: Report of Groundwater Sampling  
Steady Simmons  
16661 Grays Highway  
Early Branch, South Carolina  
SCDHEC Site ID# 18856, CA # 56570  
MECI Project Number 18-6432  
Certified Site Rehabilitation Contractor UCC-0009

Dear Mr. Dunn,

Midlands Environmental Consultants Inc. (MECI) is pleased to submit the attached Report of Groundwater Sampling for the referenced site. This report describes site activities conducted at the site in general accordance with South Carolina Department of Health and Environmental Control's (SCDHEC) Quality Assurance Program Plan for the Underground Storage Tank Management Division (QAPP).

**PROJECT INFORMATION**

The subject site (Steady Simmons) is located at 16661 Grays Highway, Early Branch, Jasper County, South Carolina. The site currently occupied by a vacant store front and residence. The following table presents Underground Storage Tanks (UST's) which are associated with the subject site:

Tank #	Capacity/Product	In Use/Abandoned	Tank Status
1	1,000 Gal Gasoline	Abandoned	Removed (7/16/2002)
2	550 Gal. Gasoline	Abandoned	Removed (7/16/2002)

A release of petroleum product were reported to the South Carolina Department of Health and Environmental Control (SCDHEC) in September of 2002 and subsequently confirmed in October of 2002. The release is currently rated a Class 2BB due to water supply wells being located within 1,000' feet of the site.

The above information is based on reports and correspondence obtained from MECI field notes and SCDHEC files.



### MONITORING WELL SAMPLING AND CHEMICAL ANALYSIS

On July 12, 2018 MECI personnel collected samples from twenty-five (25) monitoring wells, two (2) surface water locales and four (4) water supply wells at the subject site. During sampling activities, water supply wells WSW-6, WSW-7, and WSW-8 were found to be inoperable and were not sampled. Water supply wells WSW-5 and WSW-9 were unable to be sampled, as permission to sample was denied by the owners. Based on the request by SCDHEC personnel, only monitoring wells that were not bracketing the screen were to be purged prior to sample collection. Sixteen (16) monitoring wells were purged prior to sample collection.

MECI personnel utilized an electronic water level indicator for water level measurements and an oil/water interface probe for free phase petroleum product level measurements. Purging was completed by bailing at least five well volumes of water from the well, until pH, conductivity, dissolved oxygen and turbidity stabilized, or all water was evacuated from the well, whichever occurred first. Sampling/purging was completed utilizing a prepackaged, clear, disposable polyethylene bailer and nylon rope. A new set of nitrile gloves were worn at each monitoring well, and at all time samples were handled. Field measurements of pH, conductivity, dissolved oxygen, and water temperature were obtained before well sampling process. MECI utilized a YSI Pro20 meter for DO (mg/L) and temperature readings (°C), YSI Pro1030 meter for pH and conductivity (uS) readings and a MicroTPI turbidimeter for turbidity readings (NTU). The attached Field Data Information Sheets presents the results of the field measurements obtained. The wells were sampled in accordance with the most recent revision of SCDHEC's Quality Assurance Program Plan for the Underground Storage Tank Management Division and the most recent revision MECI's Standard Operating Procedures.

Groundwater samples obtained were sent to Pace Analytical Services, Inc. of Huntersville, NC (SCDHEC Laboratory Certification #99006001) for analysis.

The following sampling matrix contains well development and requested analyses for each well:

Sample ID	Purge	No Purge	Gauge Only	Low-Flow Sampling	Not Sampled	Not Located	BTEX, Naphthalene, MTBE (EPA Method 8260-B)	EDB (EPA Method 8011)	1,2 DCA (EPA Method 8260-B)	8 Oxygenates (EPA Method 8260-B)	Total Lead (EPA Method 6010)	BTEX, Naphthalene, MTBE, 1,2 DCA (EPA Method 524.2)	EDB (EPA Method 504.1)
	Analyte Sampled												
MW-1R	X						X	X	X	X			
MW-2	X						X	X	X	X			
MW-3	X						X	X	X	X			
MW-4	X						X	X	X	X			
MW-5		X					X	X	X	X			
MW-6		X					X	X	X	X			
MW-7		X					X	X	X	X			
MW-8		X					X	X	X	X			
MW-9		X					X	X	X	X			
MW-10		X					X	X	X	X			
MW-13		X					X	X	X	X			

Notes: BTEX = Benzene, Toluene, Ethylbenzene, & Total Xylenes  
 MTBE=Methyl tertiary butyl ether  
 1,2 DCA = 1,2 Dichloroethane  
 EDB = Ethylene Dibromide

Sample ID	Purge	No Purge	Gauge Only	Low-Flow Sampling	Not Sampled	Not Located	BTEX, Naphthalene, MTBE (EPA Method 8260-B)	EDB (EPA Method 8011)	1,2 DCA (EPA Method 8260-B)	8 Oxygenates (EPA Method 8260-B)	Total Lead (EPA Method 6010)	BTEX, Naphthalene, MTBE, 1,2 DCA (EPA Method 524.2)	EDB (EPA Method 504.1)
Analyte Sampled													
MW-11	X						X	X	X	X			
MW-12	X						X	X	X	X			
MW-14		X					X	X	X	X			
MW-15	X						X	X	X	X			
MW-16	X						X	X	X	X			
MW-17		X					X	X	X	X			
DW-1	X						X	X	X	X			
DW-2	X						X	X	X	X			
DW-3	X						X	X	X	X			
DW-4	X						X	X	X	X			
DW-5	X						X	X	X	X			
DW-6	X						X	X	X	X			
DW-7	X						X	X	X	X			
DW-8	X						X	X	X	X			
SW-1		X					X	X	X	X			
SW-2		X					X	X	X	X			
SW-3					X								
DUP-1 (MW-6)							X	X	X	X			
DUP-2 (DW-7)							X	X	X	X			
Field Blank							X	X	X	X			
Trip Blank							X		X	X			
WSW-1										X		X	X
WSW-2										X		X	X
WSW-3										X		X	X
WSW-4										X		X	X
WSW-5					X								
WSW-6					X								
WSW-7					X								
WSW-8					X								
WSW-9					X								
DUP (WSW-2)										X		X	X
Field Blank WSW										X		X	X
Trip Blank WSW										X		X	

Notes: BTEX = Benzene, Toluene, Ethylbenzene, & Total Xylenes  
 MTBE=Methyl tertiary butyl ether  
 1,2 DCA = 1,2 Dichloroethane  
 EDB = Ethylene Dibromide


Purge water produced by the purging process was treated on-site utilizing a granular activated carbon unit. A total of 267.75 gallons of purge water was disposed of in this manner. A disposal manifest for the referenced purge water is attached at the end of this report.

*Steady Simmons*  
*Early Branch, South Carolina*

*July 23, 2018*  
*MECI Job #: 18-6432*

Please feel free to contact us at 803-808-2043 if you have any immediate questions or comments.

Sincerely,  
**Midlands Environmental Consultants, Inc.**



Kyle V. Pudney  
Project Biologist



Jeff E. Coleman  
Senior Scientist

Attachments:

**Contractor Checklist**

<b>Item#</b>	<b>Item</b>	<b>Yes</b>	<b>No</b>	<b>N/A</b>
1	Is Facility Name, Permit #, and address provided?	X		
2	Is UST Owner/Operator name, address, & phone number provided?			X
3	Is name, address, & phone number of current property owner provided?			X
4	Is the DHEC Certified UST Site Rehabilitation Contractor's Name, Address, telephone number, and certification number provided?	X		
5	Is the name, address, telephone number, and certification number of the well driller that installed borings/monitoring wells provided?			X
6	Is the name, address, telephone number, and certification number of the certified laboratory(ies) performing analytical analyses provided?	X		
7	Has the facility history been summarized?	X		
8	Has the regional geology and hydrogeology been described?			X
9	Are the receptor survey results provided as required?			X
10	Has current use of the site and adjacent land been described?			X
11	Has the site-specific geology and hydrogeology been described?			X
12	Has the primary soil type been described?			X
13	Have field screening results been described?			X
14	Has a description of the soil sample collection and preservation been detailed?			X
15	Has the field screening methodology and procedure been detailed?			X
16	Has the monitoring well installation and development dates been provided?			X
17	Has the method of well development been detailed?			X
18	Has justification been provided for the locations of the monitoring wells?			X
19	Have the monitoring wells been labeled in accordance with the UST QAPP guidelines?			X
20	Has the groundwater sampling methodology been detailed? See MECI SOP	X		
21	Have the groundwater sampling dates and groundwater measurements been provided? See attached Site Activity Summary Sheet	X		
22	Has the purging methodology been detailed? See MECI SOP	X		
23	Has the volume of water purged from each well been provided along with measurements to verify that purging is complete? See attached Field Data Information Sheets	X		
24	If free-product is present, has the thickness been provided? See attached Site Activity Summary Sheets	X		
25	Does the report include a brief discussion of the assessment done and the results?			X
26	Does the report include a brief discussion of the aquifer evaluation and results?			X
27	Does the report include a brief discussion of the fate & transport models used?			X

Item#	Item	Yes	No	N/A
28	Are the site-conceptual model tables included? (Tier 1 Risk Evaluation)			X
29	Have the exposure pathways been analyzed? (Tier 2 Risk Evaluation)			X
30	Have the SSTLs for each compound and pathway been calculated? (Tier 2 Risk Evaluation)			X
31	Have recommendations for further action been provided and explained?			X
32	Has the soil analytical data for the site been provided in tabular format? (Table 1)			X
33	Has the potentiometric data for the site been provided in tabular format? (Table 2)			X
34	Has the current and historical laboratory data been provided in tabular format?			X
35	Have the aquifer characteristics been provided and summarized on the appropriate form?			X
36	Have the Site conceptual model tables been included? (Tier 1 Risk Evaluation)			X
37	Has the topographic map been provided with all required elements? (Figure 1)	X		
38	Has the site base map been provided with all required elements? (Figure 2)	X		
39	Have the CoC site maps been provided? (Figure 3 & Figure 4)			X
40	Has the site potentiometric map been provided? (Figure 5)			X
41	Have the geologic cross-sections been provided? (Figure 6)			X
42	Have maps showing the predicted migration of the CoCs through time been provided? (Tier 2 Risk Evaluation)			X
43	Has the site survey been provided and include all necessary elements? (Appendix A)			X
44	Have the sampling logs, chain of custody forms, and the analytical data package been included with all required elements? (Appendix B)	X		
45	Is the laboratory performing the analyses properly certified?	X		
46	Has the tax map been included with all necessary elements? (Appendix C)			X
47	Have the soil boring/field screening logs been provided? (Appendix D)			X
48	Have the well completion logs and SCDHEC Form 1903 been provided? (Appendix E)			X
49	Have the aquifer evaluation forms, data, graphs, equations, etc. been provided? (Appendix F)			X
50	Have the disposal manifests been provided? See attached	X		
51	Has a copy of the local zoning regulations been provided? (Appendix H)			X
52	Has all fate and transport modeling been provided? (Appendix I)			X
53	Have copies of all access agreements obtained by the contractor been provided? (Appendix J)			X
54	Has a copy of this form been attached to the final report and are explanations for any missing or incomplete data been provided?	X		

### Site Activity Summary

**UST Permit #:** 18856  
**Facility Name:** Steady Simmons  
**County:** Jasper  
**Field Personnel:** T. Elder, J. Coolman, L. Pickney



Sample ID	Sampled?	Date	Time	Screened Interval	Depth to Product (ft)	Depth to Water (ft)	Product Thickness (ft)	Initial Dissolved Oxygen (mg/l)	# Gals. Purged	Comments
MW-1R	Y	7/12/18	15:00	7-17	***	4.93	***	1.88	10.00	No Odor
MW-2	Y	7/12/18	14:39	7-17	***	6.18	***	1.95	9.00	Slight Odor
MW-3	Y	7/12/18	13:29	7-17	***	4.13	***	1.99	8.25	No Odor
MW-4	Y	7/12/18	10:40	7-17	***	4.30	***	2.63	10.50	No Odor
MW-5	Y	7/12/18	14:15	5-15	***	7.37	***	5.03	0.00	No Odor
MW-6	Y	7/12/18	14:10	5-15	***	7.39	***	4.91	0.00	No Odor; Duplicated as DUP-1
MW-7	Y	7/12/18	14:20	5-15	***	7.41	***	4.14	0.00	No Odor
MW-8	Y	7/12/18	14:15	5-15	***	7.14	***	2.24	0.00	No Odor; 2 bolts replaced
MW-9	Y	7/12/18	13:33	5-15	***	5.80	***	2.00	0.00	No Odor
MW-10	Y	7/12/18	12:50	5-15	***	5.62	***	1.06	0.00	No Odor
MW-11	Y	7/12/18	12:45	5-15	***	3.56	***	1.10	9.50	No Odor; 2 bolts replaced
MW-12	Y	7/12/18	11:10	5-15	***	3.65	***	2.22	9.25	No Odor
MW-13	Y	7/12/18	10:50	5-15	***	5.90	***	2.15	0.00	No Odor; 1 bolt replaced
MW-14	Y	7/12/18	10:50	5-15	***	6.31	***	3.43	0.00	No Odor; 1 bolt replaced
MW-15	Y	7/12/18	11:10	10-20	***	6.15	***	1.97	11.50	No Odor; Well vault damaged-Well lid cannot be secured
									68.00	<b>TOTAL GALLONS PURGED</b>

### Site Activity Summary

**UST Permit #:** 18856  
**Facility Name:** Steady Simmons  
**County:** Jasper  
**Field Personnel:** T. Elder, J. Coolman, L. Pickney



Sample ID	Sampled?	Date	Time	Screened Interval	Depth to Product (ft)	Depth to Water (ft)	Product Thickness (ft)	Initial Dissolved Oxygen (mg/l)	# Gals. Purged	Comments
MW-16	Y	7/12/18	11:30	10-20	***	7.34	***	5.03	10.50	No Odor
MW-17	Y	7/12/18	10:19	4-14	***	5.41	***	3.82	0.00	No Odor
DW-1	Y	7/12/18	14:06	35-40	***	7.40	***	3.62	21.75	No Odor
DW-2	Y	7/12/18	14:10	35-40	***	8.13	***	4.12	26.00	No Odor; 1 bolts replaced
DW-3	Y	7/12/18	13:08	35-40	***	4.30	***	4.30	29.25	No Odor; 1 bolts replaced
DW-4	Y	7/12/18	11:20	33-38	***	15.83	***	2.21	18.25	No Odor
DW-5	Y	7/12/18	11:56	33-38	***	6.30	***	2.96	26.00	No Odor
DW-6	Y	7/12/18	12:28	31-36	***	7.53	***	3.80	23.25	No Odor
DW-7	Y	7/12/18	15:17	31-36	***	6.20	***	3.40	24.50	No Odor; Duplicated as DUP-2
DW-8	Y	7/12/18	10:45	35-40	***	15.22	***	2.13	20.25	No Odor
SW-1	Y	7/12/18	15:30	***	***	***	***	***	***	Collected from pond, See Figure
SW-2	Y	7/12/18	15:32	***	***	***	***	***	***	Collected from pond, 16743 Grays Highway
SW-3	N	7/12/18	NS	***	***	***	***	***	***	Could not access
DUP-1	Y	7/12/18	14:10	***	***	***	***	***	***	Duplicate sampled of MW-6
DUP-2	Y	7/12/18	15:17	***	***	***	***	***	***	Duplicate sample fo DW-7
									199.75	<b>TOTAL GALLONS PURGED</b>

### Site Activity Summary

**UST Permit #:** 18856  
**Facility Name:** Steady Simmons  
**County:** Jasper  
**Field Personnel:** T. Elder, J. Coolman, L. Pickney



Sample ID	Sampled?	Date	Time	Screened Interval	Depth to Product (ft)	Depth to Water (ft)	Product Thickness (ft)	Initial Dissolved Oxygen (mg/l)	# Gals. Purged	Comments
Field Blank	Y	7/12/18	15:20	***	***	***	***	***	***	Field Blank
Trip Blank	Y	7/12/18	15:17	***	***	***	***	***	***	Trip Blank
WSW-1	Y	7/12/18	15:30	***	***	***	***	***	***	Sample Taken From Spigot on Well, White Trailer on Onsite
WSW-2	Y	7/12/18	15:40	***	***	***	***	***	***	Sample Taken From Spigot on Side of House, 16589 Grays Highway
WSW-3	Y	7/12/18	15:50	***	***	***	***	***	***	Sample Taken From Spigot on Well House, 16586 Grays Highway
WSW-4	Y	7/12/18	15:36	***	***	***	***	***	***	Sample Taken From Spigot in Front Yard, 16640 Grays Highway
WSW-5	N	7/12/18	NS	***	***	***	***	***	***	Access denied
WSW-6	N	7/12/18	NS	***	***	***	***	***	***	Not Operational, Onsite
WSW-7	N	7/12/18	NS	***	***	***	***	***	***	Well not operational; House no longer at property; Well possibly abandoned
WSW-8	N	7/12/18	NS	***	***	***	***	***	***	Not Operational/No Resident, 16713 Gray Highway
WSW-9	N	7/12/18	NS	***	***	***	***	***	***	Access denied
WSW-DUP	Y	7/12/18	15:40	***	***	***	***	***	***	Duplicate Sample of WSW-2
Field Blank WSW	Y	7/12/18	15:52	***	***	***	***	***	***	Field Blank WSW
Trip Blank WSW	Y	7/12/18	15:53	***	***	***	***	***	***	Trip Blank WSW
									0.00	<b>TOTAL GALLONS PURGED</b>





# Monitoring Well Purge And Sampling Data

Field Personnel: TE, JC, LP  
 Sampling Date(s): 7-12-18  
 Sampling Case#: 1

Job Name: Steady Simmons  
 Job Number: 18-0432

Calibration Data for:  
 Calibration Successful? Yes Yes or No (Please Circle)  
 pH: Yes No  
 Conductivity: Yes No  
 Dissolved Oxygen: Yes No  
 Turbidity: Conductivity Calibrated Every 3 Months by QA Manager

Well No.	Purge Volume	Sample Time	pH(l)	cond(l)	Temp. (°C)	DO (mg/l)	Turbidity (NTU)	Depth to (feet):			Well Depth (feet)	Water Height *(feet)	Gallons Purged		Notes	
								product	Initial H <sub>2</sub> O	final H <sub>2</sub> O			**calc.	actual		
MW-1R	Initial	14:45	5.28	62.1	26.7	1.88	53.16				4.93	7-17	12.07	1.97	10.0	No odor
	1st	14:47	5.29	62.8	26.4	1.89	89.10									
	2nd	14:49	5.30	63.2	26.4	1.92	111.2									
	3rd	14:51	5.33	64.3	26.2	1.93	210.8									
	4th	14:53	5.36	65.2	26.3	1.94	276.2									
	5th	14:55	5.37	66.4	26.3	1.97	210.4									
	Sampling	15:00	5.39	66.2	26.1	1.99	61.23									
MW-2	Initial	14:25	4.90	50.8	24.5	1.95	17.17				6.18	7-17	10.82	1.76	9.00	Slight odor
	1st	14:27	4.91	51.5	24.5	1.99	76.09									
	2nd	14:29	4.94	51.9	24.7	2.08	129.2									
	3rd	14:31	4.93	52.2	24.6	2.10	176.5									
	4th	14:33	4.95	52.2	24.7	2.11	250.1									
	5th	14:35	4.97	55.8	24.6	2.13	294.2									
	Sampling	14:39	4.99	56.3	24.9	2.14	69.09									
MW-3	Initial	13:15	5.29	53.9	25.0	1.99	29.10				4.13	7-17	9.87	1.61	8.25	No odor
	1st	13:17	5.31	53.2	25.2	1.97	46.93									
	2nd	13:19	5.35	54.9	24.9	1.95	186.2									
	3rd	13:21	5.34	57.1	24.7	1.93	208.6									
	4th	13:23	5.36	57.5	24.7	1.95	251.2									
	5th	13:25	5.37	56.2	24.6	1.98	310.3									
	Sampling	13:29	5.37	59.9	24.6	2.01	58.13									
MW-4	Initial	10:25	7.70	76.5	25.7	2.63	62.44				4.30	7-17	12.70	2.07	10.50	No odor Could not replace bolt - too w/ for bolt.
	1st	10:27	7.71	79.3	25.3	2.67	134.0									
	2nd	10:29	7.72	77.2	25.4	2.70	126.2									
	3rd	10:31	7.74	78.1	25.2	2.69	139.0									
	4th	10:33	7.74	82.6	25.0	2.73	280.4									
	5th	10:35	7.76	82.0	25.1	2.79	319.2									
	Sampling	10:40	7.76	83.5	25.1	2.80	66.77									

\* = (Depth of Well) - (Depth to Water) = Water Height  
 \*\* = One Well Volume x 5 = Gallons Purged (calculated)  
 One Well Volume = x.047 for 1" wells \* x.163 for 2" wells, or \* x.66 for 4" wells, 1.469 for 6" wells

Casing	Gallons
1"	0.047
2"	0.163
4"	0.653
6"	1.469

Sampling Case#	PH/Conductance SN	DO SN	Turbidity
Case #1	15H101448	17E101302	201301183
Case #2	15E101481	14H103098	201301174
Case #3	17E100512	17E103488	201510251

# Monitoring Well Purge And Sampling Data

Field Personnel: TE, JC, LP

Job Name: Sready Simmons

Sampling Date(s): 7-12-18

Job Number: \_\_\_\_\_

Sampling Case#: 1

**Calibration Data for:**

Calibration Successful? Yes or No (Please Circle)  
 pH: Yes No  
 Conductivity: Yes No  
 Dissolved Oxygen: Yes No  
 Turbidity: Yes No

Conductivity Calibrated Every 3 Months by QA Manager

Well No.	Purge Volume	Sample Time	pH(l)	cond(l)	Temp. (°C)	DO (mg/l)	Turbidity (NTU)	Depth to (feet):			Well Depth (feet)	Water Height (feet)	Gallons Purged		Notes
								product	Initial H <sub>2</sub> O	final H <sub>2</sub> O			**calc.	actual	
MW-5	Initial	14:15	4.63	46.8	22.9	5.03	23.12				5-15	—	—	—	No purge No odor
	1st														
	2nd														
	3rd														
	4th														
	5th														
MW-6	Initial	14:10	4.70	62.2	22.2	4.91	37.90				5-15	—	—	—	No purge No odor DUP-1
	1st														
	2nd														
	3rd														
	4th														
	5th														
MW-7	Initial	14:20	5.06	45.9	23.2	4.14	32.96				5-15	—	—	—	No purge No odor <del>          </del>
	1st														
	2nd														
	3rd														
	4th														
	5th														
MW-8	Initial	14:15	4.89	79.5	22.5	2.24	17.16				5-15	—	—	—	No purge +2 bats
	1st														
	2nd														
	3rd														
	4th														
	5th														

\*= (Depth of Well) - (Depth to Water = Water Height)

One Well Volume = x.047 for 1" wells, x .163 for 2" wells, or x .66 for 4" wells, 1.469 for 6" wells

\*\*= One Well Volume x 5 = Gallons Purged (calculated)

Casing	Gallons
1"	0.047
2"	0.163
4"	0.653
6"	1.469

Sampling Case#	PH/Conductance SN	DO SN	Turbidity
Case #1	15H101448	17E101302	201301183
Case #2	15E101481	14H103098	201301174
Case #3	17E100512	17E103488	201510251

# Monitoring Well Purge And Sampling Data

Field Personnel: TE, JC, LP

Job Name: Steady Simmons

Sampling Date(s): 7-12-18

Job Number: \_\_\_\_\_

Sampling Case#: 1

**Calibration Data for:**

Calibration Successful? Yes or No (Please Circle)  
 pH: (Yes) No  
 Conductivity: (Yes) No  
 Dissolved Oxygen: (Yes) No  
 Turbidity: (Yes) No

Conductivity Calibrated Every 3 Months by QA Manager

Well No.	Purge Volume	Sample Time	pH(I)	cond(I)	Temp. (°C)	DO (mg/l)	Turbidity (NTU)	Depth to (feet):			Well Depth (feet)	Water Height *(feet)	Gallons Purged		Notes
								product	Initial H <sub>2</sub> O	final H <sub>2</sub> O			**calc.	actual	
MW-9	Initial	13:33	5.25	70.0	23.7	2.00	61.61								
	1st														
	2nd								5.80						
	3rd										5-15				No purge
	4th														
	5th														
Sampling															No odor
MW-10	Initial	12:50	5.21	39.2	25.6	1.06	49.77								
	1st														
	2nd														
	3rd														
	4th														
	5th														
Sampling															No purge No odor
MW-11	Initial	12:30	5.29	104.8	24.3	1.10	29.10								
	1st	12:32	5.30	105.2	24.4	1.14	58.92								
	2nd	12:34	5.30	105.7	24.5	1.15	177.0								
	3rd	12:36	5.31	103.6	24.5	1.12	201.3								
	4th	12:38	5.34	103.9	24.6	1.13	290.6								
	5th	12:40	5.36	105.8	24.6	1.21	350.7								
	Sampling	12:45	5.35	105.6	24.7	1.19	22.16								
MW-12	Initial	10:55	6.46	64.9	24.6	2.22	35.27								
	1st	10:57	6.45	64.1	24.5	2.24	181.2								
	2nd	10:59	6.45	63.5	24.6	2.31	219.6								
	3rd	11:01	6.43	64.6	24.5	2.27	360.2								
	4th	11:03	6.49	65.8	24.3	2.29	374.4								
	5th	11:05	6.53	66.2	24.8	2.31	380.1								
	Sampling	11:10	6.48	67.3	25.1	2.25	44.56								

\* = (Depth of Well) - (Depth to Water = Water Height)

One Well Volume = x.047 for 1" wells \* x .163 for 2" wells, or \* x .66 for 4" wells, 1.469 for 6" wells

\*\* = One Well Volume x 5 = Gallons Purged (calculated)

Casing	Gallons
1"	0.047
2"	0.163
4"	0.653
6"	1.469

Sampling Case#	Pb/Conductance SW	DO SW	Turbidity
Case #1	15H101448	17E101302	201301183
Case #2	15E101481	14H103098	201301174
Case #3	17E100512	17E103488	201510251

# Monitoring Well Purge And Sampling Data

Field Personnel: TE, JC, LP

Job Name: Steady Simmons

Sampling Date(s): 7-12-18

Job Number: \_\_\_\_\_

Sampling Case#: 1

Calibration Data for:

Calibration Successful? Yes or No (Please Circle)  
pH: Yes No

Conductivity: Yes No

Dissolved Oxygen: Yes No

Turbidity: Conductivity Calibrated Every 3 Months by QA Manager

Well No.	Purge Volume	Sample Time	pH(l)	cond(l)	Temp. (°C)	DO (mg/l)	Turbidity (NTU)	Depth to (feet):			Well Depth (feet)	Water Height *(feet)	Gallons Purged		Notes	
								product	Initial H <sub>2</sub> O	final H <sub>2</sub> O			**calc.	actual		
MW-13	Initial	10:50	6.99	186.8	25.9	2.15	44.25				5.90	5-15	-	-	-	No purge No odor +1 bolt
	1st															
	2nd															
	3rd															
	4th															
	5th															
	Sampling															
MW-14	Initial	10:50	5.88	136.6	23.2	3.43	53.10				6.31	5-15	-	-	-	No purge No odor +1 bolt
	1st															
	2nd															
	3rd															
	4th															
	5th															
	Sampling															
MW-15	Initial	10:55	6.06	233.2	23.6	1.97	62.50				6.15	10-20	13.85	2.26	11.50	No odor Damaged Vault - lid cannot be secured
	1st	10:58	6.07	234.5	23.5	1.99	111.2									
	2nd	11:00	6.08	237.6	23.4	2.08	180.3									
	3rd	11:02	6.09	241.2	23.7	2.12	181.7									
	4th	11:04	6.11	243.2	23.7	2.10	316.1									
	5th	11:06	6.13	240.0	23.5	2.13	249.0									
		Sampling	11:10	6.15	241.1	23.6	2.16	523.2								
MW-16	Initial	11:15	6.01	34.0	22.1	5.03	70.11				7.34	10-20	12.66	2.06	10.50	No odor
	1st	11:17	6.00	34.2	22.1	5.00	66.14									
	2nd	11:19	6.03	34.6	22.1	5.06	202.9									
	3rd	11:21	6.07	35.3	22.0	5.12	210.2									
	4th	11:23	6.12	36.7	22.0	5.15	256.7									
	5th	11:25	6.13	37.0	22.2	5.17	279.4									
		Sampling	11:30	6.10	35.1	22.2	5.22	68.11								

\* = (Depth of Well) - (Depth to Water) = Water Height

One Well Volume = x.047 for 1" wells \* x .163 for 2" wells, or \* x .66 for 4" wells, 1.469 for 6" wells

\*\* = One Well Volume x 5 = Gallons Purged (calculated)

Casing	Gallons
1"	0.047
2"	0.163
4"	0.653
6"	1.469

Sampling Case#	PH/Conductance SN	DO SN	Turbidity
Case #1	15H101448	17E101302	201301183
Case #2	15E101481	14H103098	201301174
Case #3	17E100512	17E103488	201510251

# Monitoring Well Purge And Sampling Data

Field Personnel: TE, JC, LP  
 Sampling Date(s): 7-12-18  
 Sampling Case#: 1

Job Name: Steady Simmons  
 Job Number: \_\_\_\_\_

**Calibration Data for:**  
 Calibration Successful? Yes or No (Please Circle)  
 pH: Yes No  
 Conductivity: Yes No  
 Dissolved Oxygen: Yes No  
 Turbidity: Conductivity Calibrated Every 3 Months by QA Manager

Well No.	Purge Volume	Sample Time	pH(I)	cond(I)	Temp. (°C)	DO (mg/l)	Turbidity (NTU)	Depth to (feet):			Well Depth (feet)	Water Height *(feet)	Gallons Purged		Notes
								product	Initial H <sub>2</sub> O	final H <sub>2</sub> O			**calc.	actual	
MW-17	Initial	10:19	7.52	70.0	24.6	3.82	13.13								
	1st														
	2nd								5.41						no purge
	3rd														
	4th										4-14				
	5th														
	Sampling														
DW-1	Initial	13:37	4.91	64.2	21.9	3.62	40.11								
	1st	13:42	4.93	65.1	22.3	3.64	71.23								
	2nd	13:47	4.97	66.3	22.4	3.60	186.0								
	3rd	13:52	5.03	67.5	22.0	3.58	21.0								
	4th	13:57	5.09	69.7	22.1	3.67	246.2								
	5th	14:02	5.14	69.5	22.2	3.72	257.9								
	Sampling	14:06	5.16	68.0	22.3	3.81	39.02								
DW-2	Initial	13:33	5.92	59.2	22.4	4.12	33.50								
	1st	13:39	5.54	57.2	22.2	4.17	157.6								
	2nd	13:45	5.62	57.4	22.2	4.14	163.2								
	3rd	13:51	5.61	58.2	22.3	4.01	111.0								
	4th	13:57	5.64	59.3	22.1	4.10	196.3								
	5th	14:03	5.70	63.6	22.0	4.13	218.4								
	Sampling	14:10	5.72	62.9	22.1	4.19	51.62								
DW-3	Initial	12:34	5.48	48.7	24.0	4.30	31.12								
	1st	12:39	5.51	49.1	24.1	4.34	79.46								
	2nd	12:45	5.52	51.9	23.9	4.36	200.2								
	3rd	12:51	5.54	52.2	23.8	4.37	221.9								
	4th	12:57	5.57	52.4	23.7	4.41	312.7								
	5th	13:03	5.59	53.1	23.7	4.42	216.1								
	Sampling	13:08	5.53	53.7	23.9	4.48	48.92								

\* = (Depth of Well) - (Depth to Water = Water Height)  
 One Well Volume = x.047 for 1" wells \* x .163 for 2" wells, or \* x .66 for 4" wells, 1.469 for 6" wells  
 \*\* = One Well Volume x 5 = Gallons Purged (calculated)

Casing	Gallons
1"	0.047
2"	0.163
4"	0.653
6"	1.469

Sampling Case#	Pt/Conductance SN	DO SN	Turbidity
Case #1	15H101448	17E101302	201301183
Case #2	15E101481	14H103098	201301174
Case #3	17E100512	17E103488	201510251

# Monitoring Well Purge And Sampling Data

Field Personnel: TE, JC, LP  
 Sampling Date(s): 7-12-18  
 Sampling Case#: 1

Job Name: Steady Simmons  
 Job Number: \_\_\_\_\_

Calibration Data for:  
 Calibration Successful? Yes Yes or No (Please Circle)  
 pH: Yes No  
 Conductivity: Yes No  
 Dissolved Oxygen: Yes No  
 Turbidity: Conductivity Calibrated Every 3 Months by QA Manager

Well No.	Purge Volume	Sample Time	pH(I)	cond(I)	Temp. (°C)	DO (mg/l)	Turbidity (NTU)	Depth to (feet):			Well Depth (feet)	Water Height *(feet)	Gallons Purged		Notes	
								product	Initial H <sub>2</sub> O	final H <sub>2</sub> O			**calc.	actual		
DW-4	Initial	10:55	6.75	124.5	21.2	2.21	20.17									
	1st	10:59	6.76	126.2	21.1	2.19	257.11									
	2nd	11:03	6.77	127.0	21.2	2.18	99.87									
	3rd	11:07	6.78	128.9	21.3	2.16	275.2									
	4th	11:11	6.77	132.1	21.3	2.14	409.1									
	5th	11:15	6.80	134.9	21.3	2.11	417.6									
	Sampling	11:20	6.82	136.1	21.4	2.09	61.16									
DW-5	Initial	11:26	5.88	60.8	23.6	2.96	18.97									
	1st	11:31	5.92	61.2	23.5	3.08	91.36									
	2nd	11:36	5.95	62.3	23.7	3.14	139.0									
	3rd	11:40	5.97	60.7	24.0	3.11	193.0									
	4th	11:45	5.99	61.8	24.9	3.15	187.6									
	5th	11:50	6.02	63.5	24.3	3.17	230.9									
	Sampling	11:56	6.04	62.9	26.2	3.18	74.50									
DW-6	Initial	12:00	5.66	36.0	21.7	3.80	36.12									
	1st	12:04	5.80	38.2	21.8	3.82	62.09									
	2nd	12:09	5.82	39.5	21.7	3.84	114.3									
	3rd	12:15	5.84	40.1	21.6	3.86	218.0									
	4th	12:20	5.88	43.4	21.5	3.92	246.4									
	5th	12:25	5.92	44.9	21.6	3.95	246.2									
	Sampling	12:28	5.97	45.6	21.5	3.99	51.19									
DW-7	Initial	14:49	5.66	57.4	24.9	3.40	37.90									
	1st	14:54	5.68	57.3	24.7	3.46	96.20									
	2nd	14:59	5.70	58.9	24.8	3.53	110.2									
	3rd	15:04	5.72	61.0	24.6	3.42	319.4									
	4th	15:09	5.74	63.6	24.6	3.47	386.2									
	5th	15:14	5.72	64.3	24.7	3.57	391.8									
	Sampling	15:17	5.77	62.4	24.7	3.60	51.33									

\* = (Depth of Well) - (Depth to Water = Water Height)

\*\* = One Well Volume x 5 = Gallons Purged (calculated)  
 One Well Volume = x.047 for 1" wells \* x .163 for 2" wells, or \* x .66 for 4" wells, 1.469 for 6" wells

Casing	Gallons
1"	0.047
2"	0.163
4"	0.653
6"	1.469

Sampling Case#	Pb/Conductance SW	DO SW	Turbidity
Case #1	15H101448	17E101302	201301183
Case #2	15E101481	14H103098	201301174
Case #3	17E100512	17E103488	201510251

# Monitoring Well Purge And Sampling Data

Field Personnel: TE, JC, LP

Job Name: Steady Simmons

Sampling Date(s): 7-12-18

Job Number: \_\_\_\_\_

Sampling Case#: 1

Calibration Data for:

Calibration Successful? Yes or No (Please Circle)  
 pH: Yes No  
 Conductivity: Yes No  
 Dissolved Oxygen: Yes No  
 Turbidity: Yes No

Turbidity: Conductivity Calibrated Every 3 Months by QA Manager

Well No.	Purge Volume	Sample Time	pH(l)	cond(l)	Temp. (°C)	DO (mg/l)	Turbidity (NTU)	Depth to (feet):			Well Depth (feet)	Water Height (feet)	Gallons Purged		Notes		
								product	Initial H <sub>2</sub> O	final H <sub>2</sub> O			**calc.	actual			
DW-8	Initial	10:19	7.44	195.6	21.7	2.13	22.16										
	1st	10:23	7.42	197.0	21.5	2.14	71.02			15.22							"odor"
	2nd	10:27	7.45	199.2	21.3	2.15	153.2						4.04				
	3rd	10:31	7.43	199.8	21.4	2.15	118.3				35-40	24.78					
	4th	10:35	7.43	203.4	21.6	2.10	246.6										
	5th	10:39	7.41	202.0	21.3	2.13	343.9										
	Sampling	10:45	7.41	205.5	21.2	2.10	70.16							20.20			
DUP-1	Initial																
	1st																
	2nd	MW 6 @ 14:10															
	3rd																
	4th																
DUP-2	5th																
	Sampling	DW 7 @ 15:17															
FB	Initial																
	1st	15:20															
	2nd																
	3rd																
TB	4th																
	5th	15:22															
	Sampling																
SW-1	Initial																
	1st	15:50	Collected from pond; See map														
SW-2	2nd																
	3rd	15:32	Collected from pond; See map														
SW-3	4th																
	5th	Not Sampled															
	Sampling																

\* = (Depth of Well) - (Depth to Water = Water Height)

One Well Volume = x.047 for 1" wells \* x .163 for 2" wells, or \* x .66 for 4" wells, 1.469 for 6" wells

\*\* = One Well Volume x 5 = Gallons Purged (calculated)

Casing	Gallons
1"	0.047
2"	0.163
4"	0.653
6"	1.469

Sampling Case#	PW/Conductance SN	DO SN	Turbidity
Case #1	15H101448	17E101302	201301183
Case #2	15E101481	14H103098	201301174
Case #3	17E100512	17E103488	201510251

267.75 total Gallons Purged

# Monitoring Well Purge And Sampling Data

Field Personnel: TE, JC, LP

Job Name: Steady Simmons

Sampling Date(s): 7-12-18

Job Number: \_\_\_\_\_

Sampling Case#: 1

**Calibration Data for:**

Calibration Successful? Yes or No (Please Circle)  
 pH: Yes No  
 Conductivity: Yes No  
 Dissolved Oxygen: Yes No  
 Turbidity: Conductivity Calibrated Every 3 Months by QA Manager

Well No.	Purge Volume	Sample Time	pH(l)	cond(l)	Temp. (°C)	DO (mg/l)	Turbidity (NTU)	Depth to (feet):			Well Depth (feet)	Water Height *(feet)	Gallons Purged		Notes
								product	Initial H <sub>2</sub> O	final H <sub>2</sub> O			**calc.	actual	
	Initial														
	1st														
	2nd	<u>WSW-DUP - (WSW-2)</u>			<u>@ 15:40</u>										
	3rd	<u>WSW-AB: 15:52</u>													
	4th	<u>WSW-TB: 15:53</u>													
	5th														
	Sampling														
	Initial														
	1st	<u>WSW-1 : @ 15:30</u>			<u>Spigot on well; Onsite</u>										
	2nd														
	3rd	<u>WSW-2 : @ 15:40</u>			<u>Spigot on side of house - DUP</u>										
	4th														
	5th	<u>WSW-3 : @ 15:50</u>			<u>Spigot on well house</u>										
	Sampling														
	Initial	<u>WSW-4 : @ 15:36</u>			<u>Spigot in front yard</u>										
	1st														
	2nd	<u>WSW-5 : Access denied</u>													
	3rd														
	4th	<u>WSW-6 : Not Operational (well removed)</u>													
	5th														
	Sampling	<u>WSW-7 : Not Operational - House gone; Abandoned? Well hardware found outside well house</u>													
	Initial														
	1st	<u>WSW-8 : Not Operational; residence not occupied</u>													
	2nd														
	3rd	<u>WSW-9 : Access denied</u>													
	4th														
	5th														
	Sampling														

\* = (Depth of Well) - (Depth to Water) = Water Height

One Well Volume = x.047 for 1" wells \* x .163 for 2" wells, or \* x .66 for 4" wells, 1.469 for 6" wells

\*\* = One Well Volume x 5 = Gallons Purged (calculated)

Casing	Gallons
1"	0.047
2"	0.163
4"	0.653
6"	1.469

Sampling Case#	PH/Conductance SN	DO SN	Turbidity
Case #1	15H101448	17E101302	201301183
Case #2	15E101481	14H103098	201301174
Case #3	17E100512	17E103488	201510251



### CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

**Section A**

**Required Client Information:**  
 Company: SCONEC  
 Address: 2600 Bell St  
 Columbia, SC 29201  
 Email To: thashamp@scne.com  
 Phone: 803.208.0607  
 Requested Due Date/TAT:

**Section B**

**Required Project Information:**  
 Report To: A Thash  
 Copy To:  
 Purchase Order No.:  
 Project Name: Steady Simmons  
 Project Number: UST-18856 / PACE-56571

**Section C**

**Invoice Information:**  
 Attention:  
 Company Name:  
 Address:  
 Pace Quote Reference:  
 Pace Project Manager: T. Carter  
 Pace Profile #:

Page: 1 of 3  
 2241152  
 REGULATORY AGENCY  
 NPDES  GROUND WATER  DRINKING WATER  
 UST  RCRA  OTHER \_\_\_\_\_  
 Site Location: SC  
 STATE: Jasper

ITEM #	Section D Required Client Information		MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED				SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives								Analysis Test ↓	Requested Analysis Filtered (Y/N)												Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.			
	SAMPLE ID (A-Z, 0-9 / -)	Sample IDs MUST BE UNIQUE			COMPOSITE START		COMPOSITE END/GRAB				Unpreserved	H <sub>2</sub> SO <sub>4</sub>	HNO <sub>3</sub>	HCl	NaOH	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	Methanol	Other																		
					DATE	TIME	DATE	TIME																												
1	MW-1R		W	G			7-12-18	15:00	6						X																				No Odor	
2	MW-2							14:39																											Slight Odor	
3	MW-3							13:29																											No Odor	
4	MW-4							10:40																												
5	MW-5							14:15																												
6	MW-6							14:10																												
7	MW-7							14:20																												
8	MW-8							14:15																												
9	MW-9							13:33																												
10	MW-10							13:50																												
11	MW-11							13:45																												
12	MW-12						7/12/18	11:10	6						X																				No Odor	

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	<i>[Signature]</i>	7/13/18	806	<i>[Signature]</i> <i>[Signature]</i>	7/13/18	806	

**SAMPLER NAME AND SIGNATURE**

PRINT Name of SAMPLER: James Colman

SIGNATURE of SAMPLER: *[Signature]* DATE Signed (MM/DD/YY): 07/12/18

Temp in °C: \_\_\_\_\_ Received on loc (Y/N): \_\_\_\_\_ Custody Sealed Cooler (Y/N): \_\_\_\_\_ Samples Intact (Y/N): \_\_\_\_\_

\*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

# CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

<b>Section A</b> Required Client Information:		<b>Section B</b> Required Project Information:		<b>Section C</b> Invoice Information:	
Company: <u>SCDHEC</u>	Report To: <u>A. Thrash</u>	Attention:		Company Name:	
Address: <u>2600 Bell St.</u>	Copy To:	Address:		REGULATORY AGENCY	
<u>Columbia, SC 29201</u>	Purchase Order No.:	Pace Quote Reference:		<input type="checkbox"/> NPDES <input type="checkbox"/> GROUND WATER <input type="checkbox"/> DRINKING WATER	
Email To: <u>thrash@dhcc.sc.gov</u>	Project Name: <u>Steady Simmons</u>	Pace Project Manager: <u>T. Carter</u>		<input checked="" type="checkbox"/> UST <input type="checkbox"/> RCRA <input type="checkbox"/> OTHER _____	
Phone: <u>803-878-0607</u>	Project Number: <u>URT-18856/PACE-56571</u>	Pace Profile #:		Site Location: <u>SC</u>	<u>Jasper</u>
Requested Due Date/TAT:				STATE:	

ITEM #	Section D Required Client Information  <b>SAMPLE ID</b> (A-Z, 0-9 / -) Sample IDs MUST BE UNIQUE	Matrix Codes MATRIX / CODE Drinking Water DW Water WT Waste Water WW Product P Soil/Solid SL Oil OL Wipe WP Air AR Tissue TS Other OT	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED				SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives									Analysis Test Y/N	Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.													
					COMPOSITE START		COMPOSITE END/GRAB				Unpreserved	H <sub>2</sub> SO <sub>4</sub>	HNO <sub>3</sub>	HCl	NaOH	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	Methanol	Other																		
					DATE	TIME	DATE	TIME																												
1	MW-13		WT	G			7/12/18	10:50	6			X						X	X	X	X															
2	MW-14							10:50																												
3	MW-15							11:10																												
4	MW-16							11:30																												
5	MW-17							10:19																												
6	DW-1							14:06																												
7	DW-2							14:10																												
8	DW-3							13:08																												
9	DW-4							11:20																												
10	DW-5							11:50																												
11	DW-6							12:28																												
12	DW-7		WT	G			7/12/18	15:17	6			X						X	X	X	X															

	<b>RELINQUISHED BY / AFFILIATION</b>	<b>DATE</b>	<b>TIME</b>	<b>ACCEPTED BY / AFFILIATION</b>	<b>DATE</b>	<b>TIME</b>	<b>SAMPLE CONDITIONS</b>
	<u>[Signature]</u>	<u>7/13/18</u>	<u>806</u>	<u>J. Palmer</u>	<u>7-13-18</u>	<u>806</u>	

<b>SAMPLER NAME AND SIGNATURE</b>	<b>Temp in °C</b>	<b>Received on Ice (Y/N)</b>	<b>Custody Sealed Cooler (Y/N)</b>	<b>Samples Intact (Y/N)</b>
<b>PRINT Name of SAMPLER:</b> <u>James Coulman</u>				
<b>SIGNATURE of SAMPLER:</b> <u>[Signature]</u>				
<b>DATE Signed (MM/DD/YY):</b> <u>07/12/18</u>				

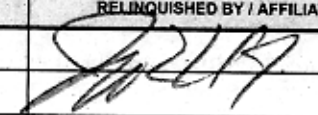
\*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

# CHAIN-OF-CUSTODY / Analytical Request Document

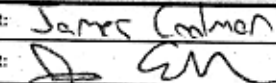
The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

<b>Section A</b> Required Client Information:	<b>Section B</b> Required Project Information:	<b>Section C</b> Invoice Information:	<b>REGULATORY AGENCY</b> <input type="checkbox"/> NPDES <input type="checkbox"/> GROUND WATER <input type="checkbox"/> DRINKING WATER <input checked="" type="checkbox"/> UST <input type="checkbox"/> RCRA <input type="checkbox"/> OTHER _____
Company: <b>SCDHEC</b>	Report To: <b>H. Thiess</b>	Attention:	
Address: <b>2000 Bull St.</b>	Copy To:	Company Name:	
<b>Columbia, SC 29204</b>	Purchase Order No.:	Address:	
Email To: <b>hthiess@cdhecc.sc.gov</b>	Project Name: <b>Steady Simmons</b>	Pace Quote Reference:	
Phone: <b>803-878-0607</b> Fax:	Project Number: <b>UST-18856/PACE-56571</b>	Pace Project Manager: <b>T. Carter</b>	
Requested Due Date/TAT:		Pace Profile #:	Site Location: <b>SC Jasper</b>

ITEM #	SAMPLE ID (A-Z, 0-9 / . -) Sample IDs MUST BE UNIQUE	Matrix Codes MATRIX / CODE	Matrix Code (see valid codes to left)	Sample Type (G=GRAB C=COMP)	COLLECTED				SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives								Analysis Test ↓	Y/N	Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.		
					COMPOSITE START		COMPOSITE END/GRAB				Unpreserved	H <sub>2</sub> SO <sub>4</sub>	HNO <sub>3</sub>	HCl	NaOH	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	Methanol	Other							
					DATE	TIME	DATE	TIME																	
1	<del>DW-8</del> <b>DW-8</b>	DW	WT	G			<b>7/12/18</b>	<b>10:45</b>		6															
2	<b>DUP-1</b>	WT						<b>14:10</b>		↓															<b>No Color</b>
3	<b>DUP-2</b>	WW						<b>15:17</b>		↓															<b>No Color</b>
4	<b>FB</b>	P						<b>15:20</b>		6															<b>FB</b>
5	<b>TB</b>	SL						<b>15:22</b>		3															<b>TB</b>
6	<b>SW-1</b>	OL						<b>15:30</b>		6															<b>LDL</b>
7	<b>SW-2</b>	WP						<b>15:32</b>		6															<b>LDL</b>
8	<b>SW-3</b>	AR								6															<b>UNS</b>

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
		<b>7/13/18</b>	<b>806</b>	<b>J. James Pace</b>	<b>7/13/18</b>	<b>806</b>	

2

<b>SAMPLER NAME AND SIGNATURE</b>		Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples intact (Y/N)
PRINT Name of SAMPLER: <b>James Calman</b>	SIGNATURE of SAMPLER: 				
DATE Signed (MM/DD/YY): <b>07/12/18</b>					

\*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

**CHAIN-OF-CUSTODY / Analytical Request Document**

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

<b>Section A</b> Required Client Information:		<b>Section B</b> Required Project Information:		<b>Section C</b> Invoice Information:			
Company: SCHEC		Report To: A Thiash		Attention:			
Address: 2000 Bull St. Columbia SC 29201		Copy To:		Company Name:		<b>REGULATORY AGENCY</b>	
Email To: thiash@cheer.x.gov		Purchase Order No.:		Address:		<input type="checkbox"/> NPDES <input type="checkbox"/> GROUND WATER <input type="checkbox"/> DRINKING WATER	
Phone: 803-888-0907 Fax:		Project Name: Stodd, Simmons - LSU		Pace Quote Reference:		<input checked="" type="checkbox"/> UST <input type="checkbox"/> RCRA <input type="checkbox"/> OTHER	
Requested Due Date/TAT:		Project Number: UST-1885C / PACE-56571		Pace Project Manager: T. Carter		Site Location	
				Pace Profile #:		STATE: <u>SC</u> <u>Jasper</u>	

ITEM #	Section D Required Client Information  <b>SAMPLE ID</b> (A-Z, 0-9 / -) Sample IDs MUST BE UNIQUE		Matrix Codes MATRIX / CODE		COLLECTED	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives							Analysis Test Y/N	Requested Analysis Filtered (Y/N)						Pace Project No./ Lab I.D.					
			MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)				COMPOSITE		Unpreserved	H <sub>2</sub> SO <sub>4</sub>	HNO <sub>3</sub>	HCl	NaOH		Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	Methanol	Other									
								DATE	TIME										DATE	TIME							
								COMPOSITE START											COMPOSITE END/GRAB								
1	W5L-1	DW	G				9			6	3		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	LDL					
2	W5L-2	DW	G				9			6	3		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	LDL					
3	W5L-3	DW	G				9			6	3		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	LDL					
4	W5L-4	DW	G				9			6	3		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	LDL					
5	W5L-5												<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	NOT Sampled				
6	W5L-6												<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	NOT Sampled				
7	W5L-7												<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	NOT Sampled				
8	W5L-8												<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	NOT Sampled				
9	W5L-9												<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	NOT Sampled				
10	W5L-DUP	DW	G				9			6	3		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	LDL				
11	W5L-FB	DW	G				9			6	3		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	LDL				
12	W5L-TB	DW	G				6			6			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	LDL				

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Use method 514.2 for BTEXNA, 12-DCA; Method 8700B for 8-OXY; Method 504.1 for EDB	<i>[Signature]</i>	7/12/18	8:06	J. Adams - Pace	7/13/18	8:06	

<b>SAMPLER NAME AND SIGNATURE</b> PRINT Name of SAMPLER: <u>Todd Elder</u> SIGNATURE of SAMPLER: <i>[Signature]</i>			DATE Signed (MM/DD/YY): <u>7-12-18</u>	Temp in °C Received on Ice (Y/N) Custody Sealed Cooler (Y/N) Samples Intact (Y/N)
---	--	--	--	--



July 23, 2018

Re: Treatment of Purge Water  
Steady Simmons  
Early Branch, South Carolina  
SCDHEC Site ID Number 18856  
MECI Project Number 18-6432

To Whom It May Concern;

Midlands Environmental Consultants, Inc. is providing the following letter as certification that treatment of the referenced purge water complied with the conditions of "Proposed Conditions for Use of Portable Activated Carbon Units for the Treatment of Small Volumes of Petroleum Hydrocarbon Contaminated Groundwater", as described in the following:

Applicability:

Groundwater treated was obtained as a result development of wells and sampling.

Conditions:

1. The purge/bail water from all wells is mixed before usage of the Activated Carbon Unit.
2. No free-product was detected in any of the purge water drums.
3. Analytical results of from well sampling show average concentrations of petroleum hydrocarbon constituents less than 5000 parts per billion (ppb) Benzene and less than 20,000 ppb total BTEX.
4. The existing carbon pack will be replaced/reactivated every 5,000 gallons.
5. Record of usage is maintained by Contractor.
6. Any and all recommendations and conditions issued by the Manufacturer have been adhered to.
7. Any and all recommendations and conditions (even on a site by site basis) issued by the SCDHEC must be adhered to.

All purge waters were treated on-site using an up-flow treatment drum loaded with 80 pounds of activated carbon. Carbon will be loaded to a maximum of 3 pounds of total organic compounds or 5,000 gallons of development/purge water, whichever occurs first.


July 23, 2018

**A total of 267.75 gallons were treated on July 12, 2017 at the referenced site.**

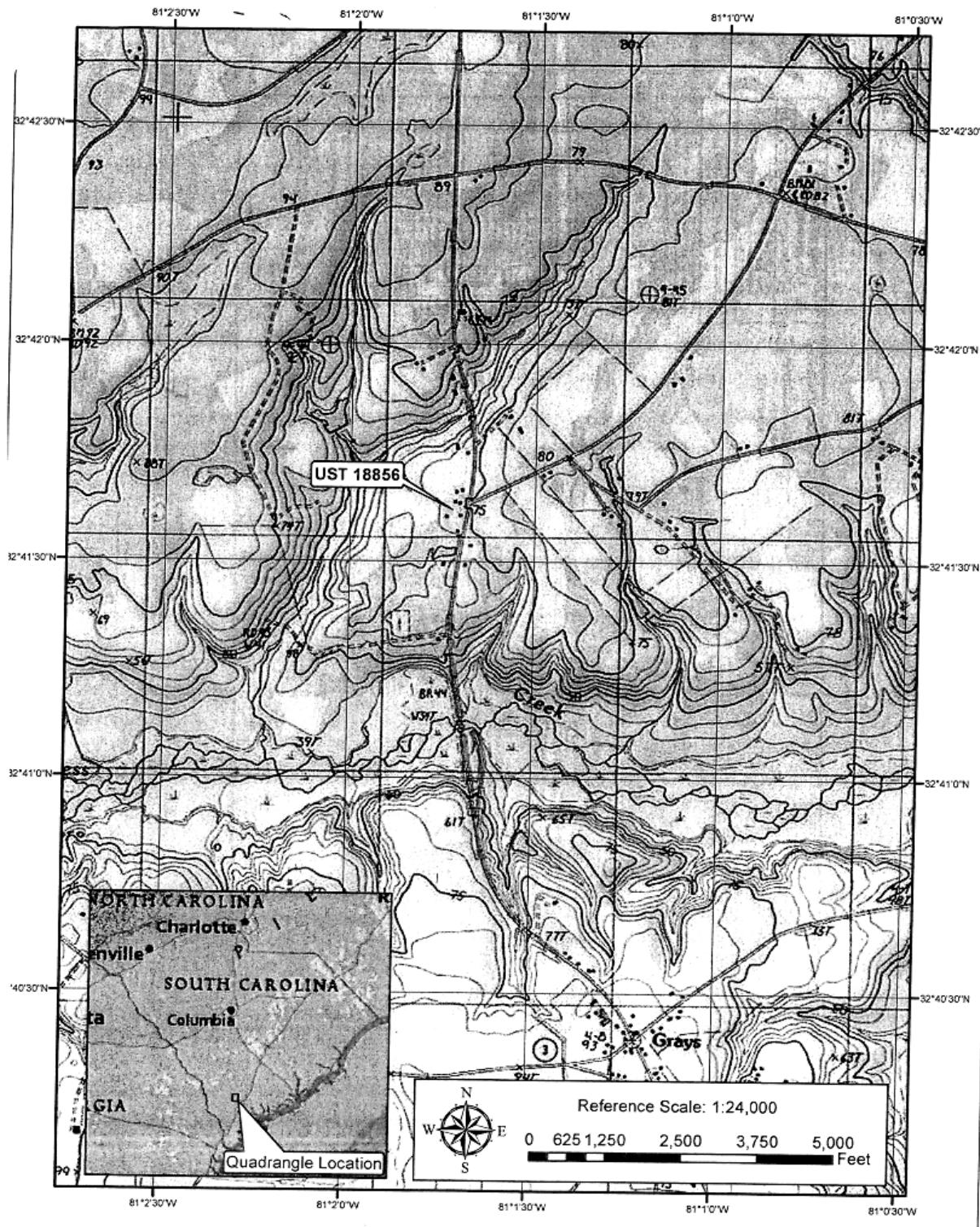
Midlands Environmental also tracks cumulative organic compounds adsorbed on the activated carbon to ensure the capacity of carbon mass is not over-charged. This data is available upon request.

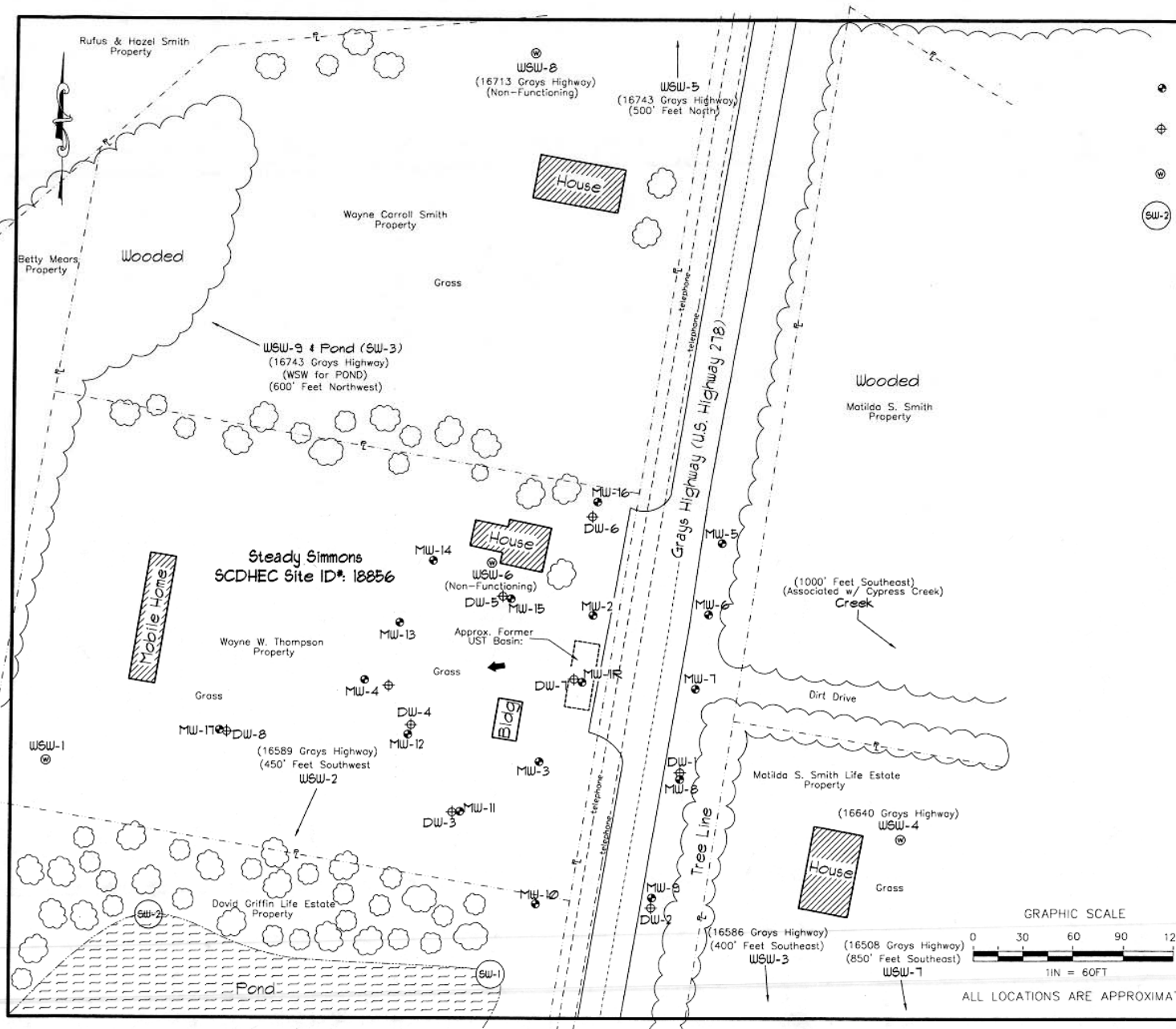
Should you have any questions or comments, please contact the undersigned.

Sincerely,  
Midlands Environmental Consultants, Inc.

  
Kyle V. Pudney  
Project Biologist

# Steady Simmons UST Permit 18856





**Explanation:**

- Location of Watertable Bracketing Monitoring Well
- ⊕ Location of Double Cased "Deep" Monitoring Well
- ⊙ Location of Water Supply Well
- ⊙ (SW-2) Location of Surface Water Sample Collection
- ↑ Estimated Groundwater Flow Direction
- Estimated Location of Removed Underground Storage Tanks
- - - Property Line
- - - Telephone Under Ground Telephone
- Pond Edge

**Potentiometric Data**

Well #	Screened Interval(ft.)	Depth to Water(ft.)	Well Head Elevation	Groundwater Elevation
MW-1R	7-17	NM	69.69	NM
MW-2	7-17	NM	70.10	NM
MW-3	7-17	NM	68.59	NM
MW-4	7-17	NM	67.95	NM
MW-5	5-15	NM	71.78	NM
MW-6	5-15	NM	71.47	NM
MW-7	5-15	NM	71.27	NM
MW-8	5-15	NM	70.90	NM
MW-9	5-15	NM	70.70	NM
MW-10	5-15	NM	66.65	NM
MW-11	5-15	NM	67.16	NM
MW-12	5-15	NM	67.18	NM
MW-13	5-15	NM	68.50	NM
MW-14	5-15	NM	70.14	NM
MW-15	10-20	NM	70.01	NM
MW-16	10-20	NM	71.65	NM
MW-17	4-14	3.20	68.16	64.96
DW-1	35-40	NM	70.95	NM
DW-2	35-40	NM	70.89	NM
DW-3	35-40	NM	67.20	NM
DW-4	33-38	NM	67.51	NM
DW-5	33-38	NM	70.02	NM
DW-6	31-36	NM	71.41	NM
DW-7	31-36	NM	69.82	NM
DW-8	35-40	11.30	67.83	56.53

Notes: Depth to groundwater measured on March 10, 2016.

Site Datum Based on Assumed Spot Elevation.

NM = Not Measured

Drawing Based on MECI Field Notes, Tax Maps, RLS Survey of the Site by Jay S. Joshi dated December 7, 2011, and Figure 2 by Crawford Environmental Services.

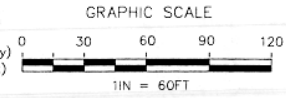
**Potentiometric Data Site Map**

Steady Simmons  
16661 Grays Highway  
Early Branch, South Carolina  
SCDHEC Site ID 18856

Midlands  
Environmental  
Consultants, Inc.

JOB NO. 16-5552  
DATE November 15, 2016  
FIGURE

5



ALL LOCATIONS ARE APPROXIMATE





Pace Analytical Services, LLC  
9800 Kincey Ave Suite 100  
Huntersville, NC 28078  
(704)875-9092

July 24, 2018

Robert Dunn  
SCHDEC  
2600 Bull St  
Columbia, SC 29201

RE: Project: Steady Simmons WSW 18856/56571  
Pace Project No.: 92391951



Dear Robert Dunn:

Enclosed are the analytical results for sample(s) received by the laboratory on July 13, 2018. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Trey Carter  
treycarter@pacelabs.com  
(704)875-9092  
Project Manager

Enclosures



**REPORT OF LABORATORY ANALYSIS**

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### CERTIFICATIONS

Project: Steady Simmons WSW 18856/56571  
Pace Project No 92391951

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#### Ormond Beach Certification IDs

8 East Tower Circle, Ormond Beach, FL 32174  
Alabama Certification # 41320  
Connecticut Certification # PH-0216  
Florida Certification # E83079  
Georgia Certification # 955  
Guam Certification: FL NELAC Reciprocity  
Hawaii Certification: FL NELAC Reciprocity  
Illinois Certification # 200068  
Indiana Certification FL NELAC Reciprocity  
Kansas Certification # E-10383  
Kentucky Certification # 90050  
Louisiana Certification # FL NELAC Reciprocity  
Louisiana Environmental Certificate # 05007  
Maryland Certification #346  
Michigan Certification # 9911  
Mississippi Certification FL NELAC Reciprocity  
Missouri Certification # 236  
Montana Certification # Cert 0074  
Nebraska Certification NE-OS-28-14

Nevada Certification FL NELAC Reciprocity  
New Hampshire Certification # 2958  
New Jersey Certification # FL022  
New York Certification # 11608  
North Carolina Environmental Certificate # 667  
North Carolina Certification # 12710  
North Dakota Certification # R-216  
Oklahoma Certification # D9947  
Pennsylvania Certification #: 68-00547  
Puerto Rico Certification #: FL01264  
South Carolina Certification #96042001  
Tennessee Certification # TN02974  
Texas Certification FL NELAC Reciprocity  
US Virgin Islands Certification FL NELAC Reciprocity  
Virginia Environmental Certification # 460165  
Wyoming Certification FL NELAC Reciprocity  
West Virginia Certification # 9962C  
Wisconsin Certification # 399079670  
Wyoming (EPA Region 8) FL NELAC Reciprocity

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#### Charlotte Certification IDs

9800 Kincey Ave Ste 100, Huntersville, NC 28078  
Louisiana/NELAP Certification # LA170028  
North Carolina Drinking Water Certification # 37706  
North Carolina Field Services Certification #: 5342  
North Carolina Wastewater Certification #: 12

South Carolina Certification # 99006001  
Florida/NELAP Certification # E87627  
Kentucky UST Certification # 84  
Virginia/VELAP Certification # 460221

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### SAMPLE SUMMARY

Project: Steady Simmons WSW 18856/56571  
Pace Project No. 92391951

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92391951001	WSW-1	Water	07/12/18 00:00	07/13/18 08:06
92391951002	WSW-2	Water	07/12/18 00:00	07/13/18 08:06
92391951003	WSW-3	Water	07/12/18 00:00	07/13/18 08:06
92391951004	WSW-4	Water	07/12/18 00:00	07/13/18 08:06
92391951005	WSW-DUP	Water	07/12/18 00:00	07/13/18 08:06
92391951006	WSW-FB	Water	07/12/18 00:00	07/13/18 08:06
92391951007	WSW-TB	Water	07/12/18 00:00	07/13/18 08:06

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**SAMPLE ANALYTE COUNT**

Project: Steady Simmons WSW 18856/56571  
 Pace Project No 92391951

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92391951001	WSW-1	EPA 504 1	SEM	2	PASI-C
		EPA 524 2	JLR	10	PASI-O
		EPA 8260B	GAW	11	PASI-C
92391951002	WSW-2	EPA 504.1	SEM	2	PASI-C
		EPA 524.2	JLR	10	PASI-O
		EPA 8260B	GAW	11	PASI-C
92391951003	WSW-3	EPA 504 1	SEM	2	PASI-C
		EPA 524 2	JLR	10	PASI-O
		EPA 8260B	GAW	11	PASI-C
92391951004	WSW-4	EPA 504.1	SEM	2	PASI-C
		EPA 524 2	JLR	10	PASI-O
		EPA 8260B	GAW	11	PASI-C
92391951005	WSW-DUP	EPA 504 1	SEM	2	PASI-C
		EPA 524.2	JLR	10	PASI-O
		EPA 8260B	GAW	11	PASI-C
92391951006	WSW-FB	EPA 504 1	SEM	2	PASI-C
		EPA 524 2	JLR	10	PASI-O
		EPA 8260B	GAW	11	PASI-C
92391951007	WSW-TB	EPA 524.2	JLR	10	PASI-O
		EPA 8260B	GAW	11	PASI-C

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**ANALYTICAL RESULTS**

Project Steady Simmons WSW 18856/56571  
 Pace Project No 92391951

Sample: WSW-1 Lab ID: 92391951001 Collected: 07/12/18 00 00 Received: 07/13/18 08 06 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No	Qual
			Limit	MDL	DF				
<b>504 GCS EDB and DBCP</b>									
Analytical Method: EPA 504.1 Preparation Method EPA 504 1									
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	07/18/18 09:14	07/18/18 23:44	106-93-4	
<i>Surrogates</i>									
1-Chloro-2-bromopropane (S)	97	%	70-130		1	07/18/18 09:14	07/18/18 23:44	301-79-56	
<b>524.2 MSV</b>									
Analytical Method EPA 524 2									
Benzene	ND	ug/L	0.50	0.25	1		07/20/18 19:41	71-43-2	
1,2-Dichloroethane	ND	ug/L	0.50	0.25	1		07/20/18 19:41	107-06-2	
Ethylbenzene	ND	ug/L	0.50	0.25	1		07/20/18 19:41	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	0.50	0.25	1		07/20/18 19:41	1634-04-4	
Naphthalene	ND	ug/L	0.50	0.25	1		07/20/18 19:41	91-20-3	
Toluene	ND	ug/L	0.50	0.25	1		07/20/18 19:41	108-88-3	
Xylene (Total)	ND	ug/L	0.50	0.25	1		07/20/18 19:41	1330-20-7	
<i>Surrogates</i>									
4-Bromofluorobenzene (S)	103	%	70-130		1		07/20/18 19:41	460-00-4	
Toluene-d8 (S)	100	%	70-130		1		07/20/18 19:41	2037-26-5	
1,2-Dichloroethane-d4 (S)	103	%	70-130		1		07/20/18 19:41	17060-07-0	
<b>8260 MSV Low Level SC</b>									
Analytical Method EPA 8260B									
tert-Amyl Alcohol	ND	ug/L	100	50.0	1		07/18/18 18:37	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	0.10	1		07/18/18 18:37	994-05-8	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	50.0	1		07/18/18 18:37	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	3.6	1		07/18/18 18:37	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	1.9	1		07/18/18 18:37	762-75-4	
Diisopropyl ether	ND	ug/L	1.0	0.12	1		07/18/18 18:37	108-20-3	
Ethanol	ND	ug/L	200	131	1		07/18/18 18:37	64-17-5	
Ethyl-tert-butyl ether	ND	ug/L	10.0	0.070	1		07/18/18 18:37	637-92-3	
<i>Surrogates</i>									
4-Bromofluorobenzene (S)	104	%	70-130		1		07/18/18 18:37	460-00-4	
1,2-Dichloroethane-d4 (S)	93	%	70-130		1		07/18/18 18:37	17060-07-0	
Toluene-d8 (S)	112	%	70-130		1		07/18/18 18:37	2037-26-5	

**REPORT OF LABORATORY ANALYSIS**

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### ANALYTICAL RESULTS

Project Steady Simmons WSW 18856/56571  
Pace Project No 92391951

Sample: WSW-2 Lab ID: 92391951002 Collected: 07/12/18 00 00 Received: 07/13/18 08 06 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No	Qual
			Limit	MDL	DF				
<b>504 GCS EDB and DBCP</b>									
Analytical Method: EPA 504.1 Preparation Method: EPA 504.1									
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	0.019	1	07/18/18 09:14	07/19/18 00:02	106-93-4	
<i>Surrogates</i>									
1-Chloro-2-bromopropane (S)	107	%	70-130		1	07/18/18 09:14	07/19/18 00:02	301-79-56	
<b>524.2 MSV</b>									
Analytical Method: EPA 524.2									
Benzene	ND	ug/L	0.50	0.25	1		07/20/18 20:05	71-43-2	
1,2-Dichloroethane	ND	ug/L	0.50	0.25	1		07/20/18 20:05	107-06-2	
Ethylbenzene	ND	ug/L	0.50	0.25	1		07/20/18 20:05	100-41-4	
Methyl-tert-butyl ether	0.92	ug/L	0.50	0.25	1		07/20/18 20:05	1634-04-4	
Naphthalene	ND	ug/L	0.50	0.25	1		07/20/18 20:05	91-20-3	
Toluene	ND	ug/L	0.50	0.25	1		07/20/18 20:05	108-88-3	
Xylene (Total)	ND	ug/L	0.50	0.25	1		07/20/18 20:05	1330-20-7	
<i>Surrogates</i>									
4-Bromofluorobenzene (S)	106	%	70-130		1		07/20/18 20:05	460-00-4	
Toluene-d8 (S)	102	%	70-130		1		07/20/18 20:05	2037-26-5	
1,2-Dichloroethane-d4 (S)	103	%	70-130		1		07/20/18 20:05	17060-07-0	
<b>8260 MSV Low Level SC</b>									
Analytical Method: EPA 8260B									
tert-Amyl Alcohol	ND	ug/L	100	50.0	1		07/18/18 19:11	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	0.10	1		07/18/18 19:11	994-05-8	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	50.0	1		07/18/18 19:11	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	3.6	1		07/18/18 19:11	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	1.9	1		07/18/18 19:11	762-75-4	P5
Diisopropyl ether	ND	ug/L	1.0	0.12	1		07/18/18 19:11	108-20-3	
Ethanol	ND	ug/L	200	131	1		07/18/18 19:11	64-17-5	
Ethyl-tert-butyl ether	ND	ug/L	10.0	0.070	1		07/18/18 19:11	637-92-3	
<i>Surrogates</i>									
4-Bromofluorobenzene (S)	102	%	70-130		1		07/18/18 19:11	460-00-4	
1,2-Dichloroethane-d4 (S)	99	%	70-130		1		07/18/18 19:11	17060-07-0	
Toluene-d8 (S)	111	%	70-130		1		07/18/18 19:11	2037-26-5	

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**ANALYTICAL RESULTS**

Project: Steady Simmons WSW 18856/56571  
 Pace Project No 92391951

Sample: WSW-3 Lab ID: 92391951003 Collected: 07/12/18 00 00 Received: 07/13/18 08:06 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No	Qual
<b>504 GCS EDB and DBCP</b>									
Analytical Method: EPA 504.1 Preparation Method EPA 504 1									
1,2-Dibromoethane (EDB)	ND	ug/L	0 019	0 019	1	07/18/18 09:14	07/19/18 00 20	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	116	%	70-130		1	07/18/18 09:14	07/19/18 00.20	301-79-56	
<b>524.2 MSV</b>									
Analytical Method EPA 524 2									
Benzene	ND	ug/L	0.50	0.25	1		07/20/18 23 15	71-43-2	
1,2-Dichloroethane	ND	ug/L	0.50	0.25	1		07/20/18 23 15	107-06-2	
Ethylbenzene	ND	ug/L	0.50	0.25	1		07/20/18 23 15	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	0.50	0.25	1		07/20/18 23 15	1634-04-4	
Naphthalene	ND	ug/L	0.50	0.25	1		07/20/18 23 15	91-20-3	
Toluene	ND	ug/L	0.50	0.25	1		07/20/18 23 15	108-88-3	
Xylene (Total)	ND	ug/L	0.50	0.25	1		07/20/18 23 15	1330-20-7	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	104	%	70-130		1		07/20/18 23:15	460-00-4	
Toluene-d8 (S)	101	%	70-130		1		07/20/18 23:15	2037-26-5	
1,2-Dichloroethane-d4 (S)	102	%	70-130		1		07/20/18 23:15	17060-07-0	
<b>8260 MSV Low Level SC</b>									
Analytical Method EPA 8260B									
tert-Amyl Alcohol	ND	ug/L	100	50 0	1		07/18/18 19 28	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10 0	0 10	1		07/18/18 19 28	994-05-8	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	50 0	1		07/18/18 19 28	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	3.6	1		07/18/18 19 28	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	1.9	1		07/18/18 19.28	762-75-4	
Diisopropyl ether	ND	ug/L	1 0	0.12	1		07/18/18 19.28	108-20-3	
Ethanol	ND	ug/L	200	131	1		07/18/18 19.28	64-17-5	
Ethyl-tert-butyl ether	ND	ug/L	10 0	0 070	1		07/18/18 19.28	637-92-3	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	104	%	70-130		1		07/18/18 19 28	460-00-4	
1,2-Dichloroethane-d4 (S)	99	%	70-130		1		07/18/18 19 28	17060-07-0	
Toluene-d8 (S)	111	%	70-130		1		07/18/18 19 28	2037-26-5	

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### ANALYTICAL RESULTS

Project Steady Simmons WSW 18856/56571  
Pace Project No 92391951

Sample: WSW-4 Lab ID: 92391951004 Collected: 07/12/18 00:00 Received 07/13/18 08:06 Matrix Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No	Qual
			Limit	MDL	DF				
<b>504 GCS EDB and DBCP</b>	Analytical Method EPA 504 1 Preparation Method EPA 504 1								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	07/23/18 11 24	07/23/18 21 37	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	104	%	70-130		1	07/23/18 11 24	07/23/18 21 37	301-79-56	
<b>524.2 MSV</b>	Analytical Method: EPA 524 2								
Benzene	ND	ug/L	0.50	0.25	1		07/20/18 23 39	71-43-2	
1,2-Dichloroethane	ND	ug/L	0.50	0.25	1		07/20/18 23 39	107-06-2	
Ethylbenzene	ND	ug/L	0.50	0.25	1		07/20/18 23 39	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	0.50	0.25	1		07/20/18 23 39	1634-04-4	
Naphthalene	ND	ug/L	0.50	0.25	1		07/20/18 23:39	91-20-3	
Toluene	ND	ug/L	0.50	0.25	1		07/20/18 23:39	108-88-3	
Xylene (Total)	ND	ug/L	0.50	0.25	1		07/20/18 23:39	1330-20-7	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	102	%	70-130		1		07/20/18 23 39	460-00-4	
Toluene-d8 (S)	102	%	70-130		1		07/20/18 23 39	2037-26-5	
1,2-Dichloroethane-d4 (S)	104	%	70-130		1		07/20/18 23 39	17060-07-0	
<b>8260 MSV Low Level SC</b>	Analytical Method: EPA 8260B								
tert-Amyl Alcohol	ND	ug/L	100	50.0	1		07/18/18 19 45	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	0.10	1		07/18/18 19 45	994-05-8	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	50.0	1		07/18/18 19 45	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	3.6	1		07/18/18 19.45	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	1.9	1		07/18/18 19.45	762-75-4	
Diisopropyl ether	ND	ug/L	1.0	0.12	1		07/18/18 19 45	108-20-3	
Ethanol	ND	ug/L	200	131	1		07/18/18 19 45	64-17-5	
Ethyl-tert-butyl ether	ND	ug/L	10.0	0.070	1		07/18/18 19 45	637-92-3	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	107	%	70-130		1		07/18/18 19.45	460-00-4	
1,2-Dichloroethane-d4 (S)	99	%	70-130		1		07/18/18 19.45	17060-07-0	
Toluene-d8 (S)	112	%	70-130		1		07/18/18 19.45	2037-26-5	

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### ANALYTICAL RESULTS

Project: Steady Simmons WSW 18856/56571

Pace Project No.: 92391951

Sample: WSW-DUP									
Lab ID: 92391951005 Collected 07/12/18 00:00 Received 07/13/18 08:06 Matrix: Water									
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No	Qual
<b>504 GCS EDB and DBCP</b>									
Analytical Method EPA 504.1 Preparation Method EPA 504.1									
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	07/23/18 11:24	07/23/18 21:55	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	110	%	70-130		1	07/23/18 11:24	07/23/18 21:55	301-79-56	
<b>524.2 MSV</b>									
Analytical Method EPA 524.2									
Benzene	ND	ug/L	0.50	0.25	1		07/18/18 19:13	71-43-2	
1,2-Dichloroethane	ND	ug/L	0.50	0.25	1		07/18/18 19:13	107-06-2	
Ethylbenzene	ND	ug/L	0.50	0.25	1		07/18/18 19:13	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	0.50	0.25	1		07/18/18 19:13	1634-04-4	
Naphthalene	ND	ug/L	0.50	0.25	1		07/18/18 19:13	91-20-3	
Toluene	ND	ug/L	0.50	0.25	1		07/18/18 19:13	108-88-3	
Xylene (Total)	ND	ug/L	0.50	0.25	1		07/18/18 19:13	1330-20-7	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	89	%	70-130		1		07/18/18 19:13	460-00-4	
Toluene-d8 (S)	91	%	70-130		1		07/18/18 19:13	2037-26-5	
1,2-Dichloroethane-d4 (S)	104	%	70-130		1		07/18/18 19:13	17060-07-0	
<b>8260 MSV Low Level SC</b>									
Analytical Method EPA 8260B									
tert-Amyl Alcohol	ND	ug/L	100	50.0	1		07/18/18 20:02	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	0.10	1		07/18/18 20:02	994-05-8	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	50.0	1		07/18/18 20:02	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	3.6	1		07/18/18 20:02	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	1.9	1		07/18/18 20:02	762-75-4	
Diisopropyl ether	ND	ug/L	1.0	0.12	1		07/18/18 20:02	108-20-3	
Ethanol	ND	ug/L	200	131	1		07/18/18 20:02	64-17-5	
Ethyl-tert-butyl ether	ND	ug/L	10.0	0.070	1		07/18/18 20:02	637-92-3	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	104	%	70-130		1		07/18/18 20:02	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%	70-130		1		07/18/18 20:02	17060-07-0	
Toluene-d8 (S)	113	%	70-130		1		07/18/18 20:02	2037-26-5	

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: Steady Simmons WSW 18856/56571  
 Pace Project No. 92391951

Sample: WSW-FB		Lab ID: 92391951006	Collected 07/12/18 00:00	Received 07/13/18 08:06	Matrix	Water				
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No	Qual	
			Limit	MDL	DF					
<b>504 GCS EDB and DBCP</b>		Analytical Method EPA 504.1 Preparation Method EPA 504 1								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	07/23/18 11:24	07/23/18 22:13	106-93-4	M1	
<b>Surrogates</b>										
1-Chloro-2-bromopropane (S)	124	%	70-130		1	07/23/18 11 24	07/23/18 22:13	301-79-56		
<b>524.2 MSV</b>		Analytical Method. EPA 524 2								
Benzene	ND	ug/L	0.50	0.25	1		07/21/18 00 02	71-43-2		
1,2-Dichloroethane	ND	ug/L	0.50	0.25	1		07/21/18 00.02	107-06-2		
Ethylbenzene	ND	ug/L	0.50	0.25	1		07/21/18 00:02	100-41-4		
Methyl-tert-butyl ether	ND	ug/L	0.50	0.25	1		07/21/18 00:02	1634-04-4		
Naphthalene	ND	ug/L	0.50	0.25	1		07/21/18 00 02	91-20-3		
Toluene	ND	ug/L	0.50	0.25	1		07/21/18 00 02	108-88-3		
Xylene (Total)	ND	ug/L	0.50	0.25	1		07/21/18 00 02	1330-20-7		
<b>Surrogates</b>										
4-Bromofluorobenzene (S)	102	%	70-130		1		07/21/18 00:02	460-00-4		
Toluene-d8 (S)	102	%	70-130		1		07/21/18 00:02	2037-26-5		
1,2-Dichloroethane-d4 (S)	104	%	70-130		1		07/21/18 00:02	17060-07-0		
<b>8260 MSV Low Level SC</b>		Analytical Method EPA 8260B								
tert-Amyl Alcohol	ND	ug/L	100	50.0	1		07/18/18 20 18	75-85-4		
tert-Amylmethyl ether	ND	ug/L	10 0	0 10	1		07/18/18 20:18	994-05-8		
3,3-Dimethyl-1-Butanol	ND	ug/L	100	50 0	1		07/18/18 20 18	624-95-3		
tert-Butyl Alcohol	ND	ug/L	100	3.6	1		07/18/18 20 18	75-65-0		
tert-Butyl Formate	ND	ug/L	50 0	1 9	1		07/18/18 20 18	762-75-4		
Diisopropyl ether	ND	ug/L	1 0	0 12	1		07/18/18 20 18	108-20-3		
Ethanol	ND	ug/L	200	131	1		07/18/18 20.18	64-17-5		
Ethyl-tert-butyl ether	ND	ug/L	10 0	0 070	1		07/18/18 20:18	637-92-3		
<b>Surrogates</b>										
4-Bromofluorobenzene (S)	102	%	70-130		1		07/18/18 20 18	460-00-4		
1,2-Dichloroethane-d4 (S)	98	%	70-130		1		07/18/18 20 18	17060-07-0		
Toluene-d8 (S)	110	%	70-130		1		07/18/18 20:18	2037-26-5		

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**ANALYTICAL RESULTS**

Project Steady Simmons WSW 18856/56571  
 Pace Project No.: 92391951

Sample: WSW-TB Lab ID: 92391951007 Collected 07/12/18 00.00 Received: 07/13/18 08 06 Matrix Water									
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No	Qual
<b>524.2 MSV Analytical Method EPA 524.2</b>									
Benzene	ND	ug/L	0.50	0.25	1		07/21/18 00:26	71-43-2	
1,2-Dichloroethane	ND	ug/L	0.50	0.25	1		07/21/18 00:26	107-06-2	
Ethylbenzene	ND	ug/L	0.50	0.25	1		07/21/18 00:26	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	0.50	0.25	1		07/21/18 00:26	1634-04-4	
Naphthalene	ND	ug/L	0.50	0.25	1		07/21/18 00:26	91-20-3	
Toluene	ND	ug/L	0.50	0.25	1		07/21/18 00:26	108-88-3	
Xylene (Total)	ND	ug/L	0.50	0.25	1		07/21/18 00:26	1330-20-7	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	103	%	70-130		1		07/21/18 00:26	460-00-4	HS
Toluene-d8 (S)	101	%	70-130		1		07/21/18 00:26	2037-26-5	
1,2-Dichloroethane-d4 (S)	102	%	70-130		1		07/21/18 00:26	17060-07-0	
<b>8260 MSV Low Level SC Analytical Method EPA 8260B</b>									
tert-Amyl Alcohol	ND	ug/L	100	50.0	1		07/18/18 20:35	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	0.10	1		07/18/18 20:35	994-05-8	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	50.0	1		07/18/18 20:35	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	3.6	1		07/18/18 20:35	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	1.9	1		07/18/18 20:35	762-75-4	
Diisopropyl ether	ND	ug/L	1.0	0.12	1		07/18/18 20:35	108-20-3	
Ethanol	ND	ug/L	200	131	1		07/18/18 20:35	64-17-5	
Ethyl-tert-butyl ether	ND	ug/L	10.0	0.070	1		07/18/18 20:35	637-92-3	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	104	%	70-130		1		07/18/18 20:35	460-00-4	
1,2-Dichloroethane-d4 (S)	97	%	70-130		1		07/18/18 20:35	17060-07-0	
Toluene-d8 (S)	112	%	70-130		1		07/18/18 20:35	2037-26-5	

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### QUALITY CONTROL DATA

Project: Steady Simmons WSW 18856/56571  
Pace Project No.: 92391951

QC Batch	462339	Analysis Method	EPA 524 2
QC Batch Method	EPA 524 2	Analysis Description:	524 2 MSV
Associated Lab Samples:	92391951005		

METHOD BLANK 2501123 Matrix: Water  
Associated Lab Samples 92391951005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	0.50	0.25	07/18/18 11:17	
Benzene	ug/L	ND	0.50	0.25	07/18/18 11:17	
Ethylbenzene	ug/L	ND	0.50	0.25	07/18/18 11:17	
Methyl-tert-butyl ether	ug/L	ND	0.50	0.25	07/18/18 11:17	
Naphthalene	ug/L	ND	0.50	0.25	07/18/18 11:17	
Toluene	ug/L	ND	0.50	0.25	07/18/18 11:17	
Xylene (Total)	ug/L	ND	0.50	0.25	07/18/18 11:17	
1,2-Dichloroethane-d4 (S)	%	116	70-130		07/18/18 11:17	
4-Bromofluorobenzene (S)	%	82	70-130		07/18/18 11:17	
Toluene-d8 (S)	%	94	70-130		07/18/18 11:17	

LABORATORY CONTROL SAMPLE & LCSD. 2501124

Parameter	Units	Spike Conc.	2501125				% Rec Limits	RPD	Max RPD	Qualifiers
			LCS Result	LCSD Result	LCS % Rec	LCSD % Rec				
1,2-Dichloroethane	ug/L	20	18.8	18.9	94	95	70-130	1	40	
Benzene	ug/L	20	18.0	18.5	90	93	70-130	3	40	
Ethylbenzene	ug/L	20	17.6	18.4	88	92	70-130	4	40	
Methyl-tert-butyl ether	ug/L	20	16.7	17.8	84	89	70-130	6	40	
Naphthalene	ug/L	20	14.9	18.0	74	90	70-130	19	40	
Toluene	ug/L	20	18.1	18.5	90	93	70-130	2	40	
Xylene (Total)	ug/L	60	55.2	57.2	92	95	70-130	4	40	
1,2-Dichloroethane-d4 (S)	%				110	106	70-130			
4-Bromofluorobenzene (S)	%				87	86	70-130			
Toluene-d8 (S)	%				94	94	70-130			

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**QUALITY CONTROL DATA**

Project Steady Simmons WSW 18856/56571  
 Pace Project No.. 92391951

QC Batch 463034 Analysis Method EPA 524 2  
 QC Batch Method: EPA 524 2 Analysis Description 524.2 MSV  
 Associated Lab Samples 92391951001, 92391951002

METHOD BLANK: 2504865 Matrix: Water  
 Associated Lab Samples 92391951001, 92391951002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	0.50	0.25	07/20/18 12:08	
Benzene	ug/L	ND	0.50	0.25	07/20/18 12:08	
Ethylbenzene	ug/L	ND	0.50	0.25	07/20/18 12:08	
Methyl-tert-butyl ether	ug/L	ND	0.50	0.25	07/20/18 12:08	
Naphthalene	ug/L	ND	0.50	0.25	07/20/18 12:08	
Toluene	ug/L	ND	0.50	0.25	07/20/18 12:08	
Xylene (Total)	ug/L	ND	0.50	0.25	07/20/18 12:08	
1,2-Dichloroethane-d4 (S)	%	102	70-130		07/20/18 12:08	
4-Bromofluorobenzene (S)	%	100	70-130		07/20/18 12:08	
Toluene-d8 (S)	%	101	70-130		07/20/18 12:08	

Parameter	Units	2504866		2504867				% Rec Limits	RPD	Max RPD	Qualifiers
		Spike Conc	LCS Result	LCS Result	LCS % Rec	LCSD % Rec					
1,2-Dichloroethane	ug/L	20	16.3	16.7	81	84	70-130	3	40		
Benzene	ug/L	20	17.5	16.6	87	83	70-130	5	40		
Ethylbenzene	ug/L	20	17.4	17.3	87	86	70-130	1	40		
Methyl-tert-butyl ether	ug/L	20	18.3	18.1	91	91	70-130	1	40		
Naphthalene	ug/L	20	15.0	16.5	75	83	70-130	9	40		
Toluene	ug/L	20	19.2	19.2	96	96	70-130	0	40		
Xylene (Total)	ug/L	60	49.9	50.6	83	84	70-130	1	40		
1,2-Dichloroethane-d4 (S)	%				90	91	70-130				
4-Bromofluorobenzene (S)	%				106	105	70-130				
Toluene-d8 (S)	%				96	96	70-130				

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**QUALITY CONTROL DATA**

Project: Steady Simmons WSW 18856/56571  
Pace Project No: 92391951

QC Batch: 463119 Analysis Method: EPA 524.2  
QC Batch Method: EPA 524.2 Analysis Description: 524.2 MSV  
Associated Lab Samples: 92391951003, 92391951004, 92391951006, 92391951007

METHOD BLANK: 2505327 Matrix: Water  
Associated Lab Samples: 92391951003, 92391951004, 92391951006, 92391951007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	0.50	0.25	07/20/18 22:51	
Benzene	ug/L	ND	0.50	0.25	07/20/18 22:51	
Ethylbenzene	ug/L	ND	0.50	0.25	07/20/18 22:51	
Methyl-tert-butyl ether	ug/L	ND	0.50	0.25	07/20/18 22:51	
Naphthalene	ug/L	ND	0.50	0.25	07/20/18 22:51	
Toluene	ug/L	ND	0.50	0.25	07/20/18 22:51	
Xylene (Total)	ug/L	ND	0.50	0.25	07/20/18 22:51	
1,2-Dichloroethane-d4 (S)	%	103	70-130		07/20/18 22:51	
4-Bromofluorobenzene (S)	%	103	70-130		07/20/18 22:51	
Toluene-d8 (S)	%	100	70-130		07/20/18 22:51	

LABORATORY CONTROL SAMPLE & LCSD: 2505328

Parameter	Units	2505329									
		Spike Conc	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers	
1,2-Dichloroethane	ug/L	20	15.5	15.7	78	78	70-130	1	40		
Benzene	ug/L	20	16.7	17.4	83	87	70-130	4	40		
Ethylbenzene	ug/L	20	17.2	17.1	86	85	70-130	1	40		
Methyl-tert-butyl ether	ug/L	20	19.3	19.8	96	99	70-130	3	40		
Naphthalene	ug/L	20	14.8	14.7	74	74	70-130	0	40		
Toluene	ug/L	20	19.7	18.7	98	93	70-130	5	40		
Xylene (Total)	ug/L	60	48.6	48.7	81	81	70-130	0	40		
1,2-Dichloroethane-d4 (S)	%					86	90	70-130			
4-Bromofluorobenzene (S)	%					107	106	70-130			
Toluene-d8 (S)	%					95	95	70-130			

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### QUALITY CONTROL DATA

Project Steady Simmons WSW 18856/56571  
Pace Project No 92391951

QC Batch 419815 Analysis Method: EPA 8260B  
QC Batch Method EPA 8260B Analysis Description 8260 MSV Low Level SC  
Associated Lab Samples 92391951001, 92391951002, 92391951003, 92391951004, 92391951005, 92391951006, 92391951007

METHOD BLANK 2326399 Matrix: Water  
Associated Lab Samples 92391951001, 92391951002, 92391951003, 92391951004, 92391951005, 92391951006, 92391951007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
3,3-Dimethyl-1-Butanol	ug/L	ND	100	50.0	07/18/18 11.38	
Diisopropyl ether	ug/L	ND	10	0.12	07/18/18 11.38	
Ethanol	ug/L	ND	200	131	07/18/18 11.38	
Ethyl-tert-butyl ether	ug/L	ND	10.0	0.070	07/18/18 11.38	
tert-Amyl Alcohol	ug/L	ND	100	50.0	07/18/18 11.38	
tert-Amylmethyl ether	ug/L	ND	10.0	0.10	07/18/18 11.38	
tert-Butyl Alcohol	ug/L	ND	100	3.6	07/18/18 11.38	
tert-Butyl Formate	ug/L	ND	50.0	1.9	07/18/18 11.38	
1,2-Dichloroethane-d4 (S)	%	97	70-130		07/18/18 11.38	
4-Bromofluorobenzene (S)	%	104	70-130		07/18/18 11.38	
Toluene-d8 (S)	%	106	70-130		07/18/18 11.38	

#### LABORATORY CONTROL SAMPLE: 2326400

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
3,3-Dimethyl-1-Butanol	ug/L	1000	1000	100	70-130	
Diisopropyl ether	ug/L	50	46.3	93	70-130	
Ethanol	ug/L	2000	1810	90	70-130	
Ethyl-tert-butyl ether	ug/L	100	100	100	70-130	
tert-Amyl Alcohol	ug/L	1000	1030	103	70-130	
tert-Amylmethyl ether	ug/L	100	101	101	70-130	
tert-Butyl Alcohol	ug/L	500	443	89	70-130	
tert-Butyl Formate	ug/L	400	474	119	70-130	
1,2-Dichloroethane-d4 (S)	%			107	70-130	
4-Bromofluorobenzene (S)	%			100	70-130	
Toluene-d8 (S)	%			94	70-130	

#### MATRIX SPIKE SAMPLE: 2326402

Parameter	Units	92391951002 Result	Spike Conc	MS Result	MS % Rec	% Rec Limits	Qualifiers
3,3-Dimethyl-1-Butanol	ug/L	ND	400	407	102	70-130	
Diisopropyl ether	ug/L	ND	20	18.1	91	70-130	
Ethanol	ug/L	ND	800	791	99	70-130	
Ethyl-tert-butyl ether	ug/L	ND	40	37.6	94	70-130	
tert-Amyl Alcohol	ug/L	ND	400	390	98	70-130	
tert-Amylmethyl ether	ug/L	ND	40	39.7	99	70-130	
tert-Butyl Alcohol	ug/L	ND	200	254	127	70-130	
tert-Butyl Formate	ug/L	ND	160	ND	0	70-130 P5	

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**QUALITY CONTROL DATA**

Project Steady Simmons WSW 18856/56571  
Pace Project No 92391951

MATRIX SPIKE SAMPLE: 2326402		92391951002	Spike	MS	MS	% Rec	Qualifiers
Parameter	Units	Result	Conc.	Result	% Rec	Limits	
1,2-Dichloroethane-d4 (S)	%				123	70-130	
4-Bromofluorobenzene (S)	%				100	70-130	
Toluene-d8 (S)	%				99	70-130	

SAMPLE DUPLICATE 2326401		92391951001	Dup	RPD	Max	Qualifiers
Parameter	Units	Result	Result	RPD	RPD	
3,3-Dimethyl-1-Butanol	ug/L	ND	ND		30	
Diisopropyl ether	ug/L	ND	ND		30	
Ethanol	ug/L	ND	ND		30	
Ethyl-tert-butyl ether	ug/L	ND	ND		30	
tert-Amyl Alcohol	ug/L	ND	ND		30	
tert-Amylmethyl ether	ug/L	ND	ND		30	
tert-Butyl Alcohol	ug/L	ND	ND		30	
tert-Butyl Formate	ug/L	ND	ND		30	
1,2-Dichloroethane-d4 (S)	%	93	96	3		
4-Bromofluorobenzene (S)	%	104	103	0		
Toluene-d8 (S)	%	112	109	3		

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### QUALITY CONTROL DATA

Project: Steady Simmons WSW 18856/56571  
Pace Project No. 92391951

QC Batch 419696 Analysis Method EPA 504 1  
QC Batch Method: EPA 504 1 Analysis Description GCS 504 EDB DBCP  
Associated Lab Samples: 92391951001, 92391951002, 92391951003

METHOD BLANK 2325810 Matrix: Water  
Associated Lab Samples 92391951001, 92391951002, 92391951003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	0.020	0.020	07/18/18 16:38	
1-Chloro-2-bromopropane (S)	%	109	70-130		07/18/18 16:38	

LABORATORY CONTROL SAMPLE & LCSD 2325811 2325812

Parameter	Units	Spike Conc	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	25	0.24	0.24	97	96	70-130	1	20	
1-Chloro-2-bromopropane (S)	%				104	105	70-130			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2325813 2325814

Parameter	Units	92391928001 Result	MS Spike Conc	MSD Spike Conc	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dibromoethane (EDB)	ug/L	ND	24	.24	0.24	0.25	97	103	65-135	7	20	
1-Chloro-2-bromopropane (S)	%						102	108	70-130			

SAMPLE DUPLICATE: 2325815

Parameter	Units	92391928004 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	ND		20	
1-Chloro-2-bromopropane (S)	%	106	129	20		

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**QUALITY CONTROL DATA**

Project Steady Simmons WSW 18856/56571  
Pace Project No 92391951

QC Batch 420524 Analysis Method: EPA 504.1  
QC Batch Method: EPA 504 1 Analysis Description GCS 504 EDB DBCP  
Associated Lab Samples: 92391951004, 92391951005, 92391951006

METHOD BLANK: 2329634 Matrix Water  
Associated Lab Samples 92391951004, 92391951005, 92391951006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	0.020	0.020	07/23/18 20 42	
1-Chloro-2-bromopropane (S)	%	135	70-130		07/23/18 20 42	S3

LABORATORY CONTROL SAMPLE & LCSD 2329635

Parameter	Units	2329636								
		Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	24	0.23	0.27	95	110	70-130	15	20	
1-Chloro-2-bromopropane (S)	%				118	125	70-130			

SAMPLE DUPLICATE 2329639

Parameter	Units	92391981004				Max RPD	Qualifiers
		Result	Dup Result	RPD			
1,2-Dibromoethane (EDB)	ug/L	ND	ND		20		
1-Chloro-2-bromopropane (S)	%	129	115	7			

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

**REPORT OF LABORATORY ANALYSIS**

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## QUALIFIERS

Project: Steady Simmons WSW 18856/56571  
Pace Project No 92391951

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### DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270 The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270 The result reported for each analyte is a combined concentration

Pace Analytical is TNI accredited Contact your Pace PM for the current list of accredited analytes

TNI - The NELAC Institute

### LABORATORIES

PASI-C Pace Analytical Services - Charlotte

PASI-O Pace Analytical Services - Ormond Beach

### ANALYTE QUALIFIERS

HS Results are from sample aliquot taken from VOA vial with headspace (air bubble greater than 6 mm diameter).

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

P5 The EPA or method required sample preservation degrades this compound, therefore acceptable recoveries may not be achieved in sample matrix spikes.

S3 Surrogate recovery exceeded laboratory control limits. Analyte presence below reporting limits in associated sample

## REPORT OF LABORATORY ANALYSIS

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**QUALITY CONTROL DATA CROSS REFERENCE TABLE**

Project: Steady Simmons WSW 18856/56571  
Pace Project No 92391951

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92391951001	WSW-1	EPA 504.1	419696	EPA 504.1	419804
92391951002	WSW-2	EPA 504.1	419696	EPA 504.1	419804
92391951003	WSW-3	EPA 504.1	419696	EPA 504.1	419804
92391951004	WSW-4	EPA 504.1	420524	EPA 504.1	420618
92391951005	WSW-DUP	EPA 504.1	420524	EPA 504.1	420618
92391951006	WSW-FB	EPA 504.1	420524	EPA 504.1	420618
92391951001	WSW-1	EPA 524.2	463034		
92391951002	WSW-2	EPA 524.2	463034		
92391951003	WSW-3	EPA 524.2	463119		
92391951004	WSW-4	EPA 524.2	463119		
92391951005	WSW-DUP	EPA 524.2	462339		
92391951006	WSW-FB	EPA 524.2	463119		
92391951007	WSW-TB	EPA 524.2	463119		
92391951001	WSW-1	EPA 8260B	419815		
92391951002	WSW-2	EPA 8260B	419815		
92391951003	WSW-3	EPA 8260B	419815		
92391951004	WSW-4	EPA 8260B	419815		
92391951005	WSW-DUP	EPA 8260B	419815		
92391951006	WSW-FB	EPA 8260B	419815		
92391951007	WSW-TB	EPA 8260B	419815		

**REPORT OF LABORATORY ANALYSIS**

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Laboratory receiving samples:  
 Asheville  Eden  Greenwood  Huntersville  Raleigh  Mechanicsville

Sample Condition Upon Receipt: **SCUR** Client Name: SCDHPC Project #: **WO# : 92391951**  
 Courier:  Fed Ex  UPS  USPS  Client  
 Commercial  Pace  Other: \_\_\_\_\_



Custody Seal Present?  Yes  No Seals Intact?  Yes  No  
 Date/Initials Person Examining Contents: LD 7-13-18

Packing Material:  Bubble Wrap  Bubble Bags  None  Other  
 Thermometer:  IR Gun ID: 92T040 Type of Ice:  Wet  Blue  None  
 Biological Tissue Frozen?  Yes  No  N/A

Cooler Temp (°C): 3.6 Correction Factor: Add/Subtract (°C) +0.4  
 Cooler Temp Corrected (°C): 4.0  
 Temp should be above freezing to 6°C  
 Samples out of temp criteria. Samples on ice, cooling process has begun

USDA Regulated Soil  N/A, water sample  
 Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)?  Yes  No  
 Did samples originate from a foreign source (Internationally, including Hawaii and Puerto Rico)?  Yes  No

	Comments/Discrepancy:
Chain of Custody Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Samples Arrived within Hold Time? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Short Hold Time Analysis (<72 hr.)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	3.
Rush Turn Around Time Requested? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	4.
Sufficient Volume? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Correct Containers Used? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	6.
-Pace Containers Used? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Containers Intact? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	7.
Dissolved analysis: Samples Field Filtered? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	8.
Sample Labels Match COC? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	9. <u>No dates time on samples</u>
-Includes Date/Time/ID/Analysis Matrix: <u>WT</u>	
Headspace in VOA Vials (>5-6mm)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	10.
Trip Blank Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	11.
Trip Blank Custody Seals Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	

COMMENTS/SAMPLE DISCREPANCY \_\_\_\_\_ Field Data Required?  Yes  No

CLIENT NOTIFICATION/RESOLUTION \_\_\_\_\_ Lot ID of split containers: \_\_\_\_\_

Person contacted: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Project Manager SCURF Review: TC Date: 7/16/18  
 Project Manager SRF Review: TC Date: 7/16/18

\*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRQ/8015 (water) DOC, LLHg

\*\*Bottom half of box is to list number of bottle

Project #

**WO# : 92391951**  
 PH: RWC      Due Date: 07/24/18  
 CLIENT: 92-SCDHEC

Item#	Item Description	1	2	3	4	5	6	7	8	9	10	11	12
BP4U-125 ml. Plastic Unpreserved (N/A) (C-)													
BP3U-250 ml. Plastic Unpreserved (N/A)													
BP2U-500 ml. Plastic Unpreserved (N/A)													
BP1U-1 liter Plastic Unpreserved (N/A)													
BP4S-125 ml. Plastic H2SO4 (pH < 2) (C-)													
BP3S-250 ml. plastic HNO3 (pH < 2)													
BP4Z-125 ml. Plastic Zn Acetate & NaOH (>9)													
BP4C-125 ml. Plastic NaOH (pH > 12) (C-)													
WG7U-Wide-mouthed Glass Jar Unpreserved													
AG1U-1 liter Amber Unpreserved (N/A) (C-)													
AG1H-1 liter Amber HCl (pH < 2)													
AG3U-250 ml. Amber Unpreserved (N/A) (C-)													
AG1S-1 liter Amber H2SO4 (pH < 2)													
AG3S-250 ml. Amber H2SO4 (pH < 2)													
AG3A(DG3A)-250 ml. Amber NH4Cl (N/A)(C-)													
DG6H-40 ml. VOA HCl (N/A)													
VG6T-40 ml. VOA Na2S2O3 (N/A)													
VG6U-40 ml. VOA Ump (N/A)													
DG6P-40 ml. VOA H3PO4 (N/A)													
VOAK (6 vials per bag)-5035 kit (N/A)													
V/GK (3 vials per bag)-VPH/Gas kit (N/A)													
SP3T-125 ml. Sterile Plastic (N/A - lab)													
SP2T-250 ml. Sterile Plastic (N/A - lab)													
BP3A-250 ml. Plastic (NH2)2SO4 (9.3-9.7)													
AG6U-100 ml. Amber Unpreserved vials (N/A)													
VSGU-20 ml. Scintillation vials (N/A)													
DG6U-40 ml. Amber Unpreserved vials (N/A)													

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.



## CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

**Section A**

**Required Client Information:**  
 Company: SCDHEC  
 Address: 2000 Bull St.  
Columbia, SC 29201  
 Email To: thrashe@sdhec.sc.gov  
 Phone: 803-888-0007 Fax: \_\_\_\_\_  
 Requested Due Date/TAT: \_\_\_\_\_

**Section B**

**Required Project Information:**  
 Report To: J. Thrash  
 Copy To: \_\_\_\_\_  
 Purchase Order No.: \_\_\_\_\_  
 Project Name: Steady Simmons - WSU  
 Project Number: UST-1885C / PACE-56571

**Section C**

**Invoice Information:**  
 Attention: \_\_\_\_\_  
 Company Name: \_\_\_\_\_  
 Address: \_\_\_\_\_  
 Pace Quote Reference: \_\_\_\_\_  
 Pace Project Manager: T. Carter  
 Pace Profile #: 1113

Page: 1 of 1  
2241157  
**REGULATORY AGENCY**  
 NPDES  GROUND WATER  DRINKING WATER  
 UST  RCRA  OTHER \_\_\_\_\_  
 Site Location: SC Jasper  
 STATE: \_\_\_\_\_

ITEM #	SAMPLE ID (A-Z, 0-9 / -) Sample IDs MUST BE UNIQUE	Matrix Codes MATRIX / CODE Drinking Water DW Water WT Waste Water WW Product P Soil/Solid SL Oil OL Wipe WP Air AR Tissue TS Other OT	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED				SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives						Analysis Test ↓ BTEXNA 12-DC4 8260B 509.1 EDB	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.		
					COMPOSITE START		COMPOSITE END/GRAB				Unpreserved	H <sub>2</sub> SO <sub>4</sub>	HNO <sub>3</sub>	HCl	NaOH	Nap <sub>2</sub> S <sub>2</sub> O <sub>8</sub>				Methanol	Other
					DATE	TIME	DATE	TIME			Y/N	Y/N	Y/N	Y/N	Y/N	Y/N				Y/N	Y/N
1	WSU-1		DW	G			7-12-18		9			6	3					92391951			
2	WSU-2		DW	G			7-12-18		9			6	3					LDL 001			
3	WSU-3		DW	G			7-12-18		9			6	3					LDL 002			
4	WSU-4		DW	G			7-12-18		9			6	3					LDL 003			
5	WSU-5																	LDL 009			
6	WSU-6																	Not Sampled			
7	WSU-7																	Not Sampled			
8	WSU-8																	Not Sampled			
9	WSU-9																	Not Sampled			
10	WSU-DUP		DW	G			7-12-18		9			6	3					LDL 005			
11	WSU-EB		DW	G			7-12-18		9			6	3					LDL 006			
12	WSU-TB		DW	G			7-12-18		6			6						LDL 007			

<b>ADDITIONAL COMMENTS</b> Use method 529.2 for BTEXNA, 12-DC4; Method 8260B for 8-OXY; Method 509.1 for EDB	<b>REINFORCED BY / AFFILIATION</b> 	<b>DATE</b> 8/2/18	<b>TIME</b> 8:06	<b>ACCEPTED BY / AFFILIATION</b> 	<b>DATE</b> 7-13-18	<b>TIME</b> 8:06	<b>SAMPLE CONDITIONS</b> ✓ NY
<b>SAMPLER NAME AND SIGNATURE</b> PRINT Name of SAMPLER: <u>Todd Elder</u> SIGNATURE of SAMPLER:							
						<b>DATE Signed (MM/DD/YYYY):</b> <u>7-12-18</u>	<b>Temp in °C</b> <b>Received on Ice (Y/N)</b> <b>Custody Sealed Cooler (Y/N)</b> <b>Samples Intact (Y/N)</b>

\*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.



Pace Analytical Services, LLC  
9800 Kinsey Ave Suite 100  
Huntersville, NC 28078  
(704)875-9092

July 26, 2018

Robert Dunn  
SCHDEC  
2600 Bull St  
Columbia, SC 29201



RE: Project: STEADY SIMMONS 18856/56571  
Pace Project No.: 92391949

Dear Robert Dunn:

Enclosed are the analytical results for sample(s) received by the laboratory on July 13, 2018. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Trey Carter  
treycarter@pacelabs.com  
(704)875-9092  
Project Manager

Enclosures



**REPORT OF LABORATORY ANALYSIS**

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Pace Analytical Services, LLC  
9800 Kincey Ave Suite 100  
Huntersville, NC 28078  
(704)875-9092

### CERTIFICATIONS

Project STEADY SIMMONS 18856/56571  
Pace Project No 92391949

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#### Charlotte Certification IDs

9800 Kincey Ave. Ste 100, Huntersville, NC 28078  
Louisiana/NELAP Certification # LA170028  
North Carolina Drinking Water Certification # 37706  
North Carolina Field Services Certification #: 5342  
North Carolina Wastewater Certification # 12

South Carolina Certification #: 99006001  
Florida/NELAP Certification #: E87627  
Kentucky UST Certification # 84  
Virginia/VELAP Certification # 460221

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### REPORT OF LABORATORY ANALYSIS

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### SAMPLE SUMMARY

Project STEADY SIMMONS 18856/56571  
Pace Project No 92391949

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92391949001	MW-1R	Water	07/12/18 15 00	07/13/18 08:06
92391949002	MW-2	Water	07/12/18 14 39	07/13/18 08:06
92391949003	MW-3	Water	07/12/18 13 29	07/13/18 08:06
92391949004	MW-4	Water	07/12/18 10 40	07/13/18 08:06
92391949005	MW-5	Water	07/12/18 14 15	07/13/18 08:06
92391949006	MW-6	Water	07/12/18 14:10	07/13/18 08:06
92391949007	MW-7	Water	07/12/18 14:20	07/13/18 08:06
92391949008	MW-8	Water	07/12/18 14:15	07/13/18 08:06
92391949009	MW-9	Water	07/12/18 13:33	07/13/18 08:06
92391949010	MW-10	Water	07/12/18 12:50	07/13/18 08:06
92391949011	MW-11	Water	07/12/18 12 45	07/13/18 08:06
92391949012	MW-12	Water	07/12/18 11 10	07/13/18 08:06
92391949013	MW-13	Water	07/12/18 10 50	07/13/18 08:06
92391949014	MW-14	Water	07/12/18 10.50	07/13/18 08:06
92391949015	MW-15	Water	07/12/18 11 10	07/13/18 08:06
92391949016	MW-16	Water	07/12/18 11 30	07/13/18 08:06
92391949017	MW-17	Water	07/12/18 10 19	07/13/18 08:06
92391949018	DW-1	Water	07/12/18 14:06	07/13/18 08:06
92391949019	DW-2	Water	07/12/18 14:10	07/13/18 08:06
92391949020	DW-3	Water	07/12/18 13:08	07/13/18 08:06
92391949021	DW-4	Water	07/12/18 11.20	07/13/18 08:06
92391949022	DW-5	Water	07/12/18 11:56	07/13/18 08:06
92391949023	DW-6	Water	07/12/18 12 28	07/13/18 08:06
92391949024	DW-7	Water	07/12/18 15 17	07/13/18 08:06
92391949025	DW-8	Water	07/12/18 10 45	07/13/18 08:06
92391949026	DUP-1	Water	07/12/18 14:10	07/13/18 08:06
92391949027	DUP-2	Water	07/12/18 15 17	07/13/18 08:06
92391949028	FB	Water	07/12/18 15:20	07/13/18 08:06
92391949029	TB	Water	07/12/18 15:22	07/13/18 08:06
92391949030	SW-1	Water	07/12/18 15:30	07/13/18 08:06
92391949031	SW-2	Water	07/12/18 15 32	07/13/18 08:06

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**SAMPLE ANALYTE COUNT**

Project STEADY SIMMONS 18856/56571  
 Pace Project No.: 92391949

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92391949001	MW-1R	EPA 8011	SEM	2	PASI-C
		EPA 8260B	CAH	20	PASI-C
92391949002	MW-2	EPA 8011	SEM	2	PASI-C
		EPA 8260B	GAW	20	PASI-C
92391949003	MW-3	EPA 8011	SEM	2	PASI-C
		EPA 8260B	CAH	20	PASI-C
92391949004	MW-4	EPA 8011	SEM	2	PASI-C
		EPA 8260B	CAH	20	PASI-C
92391949005	MW-5	EPA 8011	SEM	2	PASI-C
		EPA 8260B	CAH	20	PASI-C
92391949006	MW-6	EPA 8011	SEM	2	PASI-C
		EPA 8260B	CAH	20	PASI-C
92391949007	MW-7	EPA 8011	SEM	2	PASI-C
		EPA 8260B	CAH	20	PASI-C
92391949008	MW-8	EPA 8011	SEM	2	PASI-C
		EPA 8260B	CAH	20	PASI-C
92391949009	MW-9	EPA 8011	SEM	2	PASI-C
		EPA 8260B	CAH	20	PASI-C
92391949010	MW-10	EPA 8011	SEM	2	PASI-C
		EPA 8260B	CAH	20	PASI-C
92391949011	MW-11	EPA 8011	SEM	2	PASI-C
		EPA 8260B	GAW	20	PASI-C
92391949012	MW-12	EPA 8011	SEM	2	PASI-C
		EPA 8260B	GAW	20	PASI-C
92391949013	MW-13	EPA 8011	SEM	2	PASI-C
		EPA 8260B	GAW	20	PASI-C
92391949014	MW-14	EPA 8011	SEM	2	PASI-C
		EPA 8260B	GAW	20	PASI-C
92391949015	MW-15	EPA 8011	SEM	2	PASI-C
		EPA 8260B	GAW	20	PASI-C
92391949016	MW-16	EPA 8011	SEM	2	PASI-C
		EPA 8260B	GAW	20	PASI-C
92391949017	MW-17	EPA 8011	SEM	2	PASI-C
		EPA 8260B	GAW	20	PASI-C
92391949018	DW-1	EPA 8011	SEM	2	PASI-C
		EPA 8260B	GAW	20	PASI-C
92391949019	DW-2	EPA 8011	SEM	2	PASI-C

**REPORT OF LABORATORY ANALYSIS**

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**SAMPLE ANALYTE COUNT**

Project STEADY SIMMONS 18856/56571  
 Pace Project No 92391949

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92391949020	DW-3	EPA 8260B	GAW	20	PASI-C
		EPA 8011	SEM	2	PASI-C
92391949021	DW-4	EPA 8260B	GAW	20	PASI-C
		EPA 8011	SEM	2	PASI-C
92391949022	DW-5	EPA 8260B	GAW	20	PASI-C
		EPA 8011	SEM	2	PASI-C
92391949023	DW-6	EPA 8260B	GAW	20	PASI-C
		EPA 8011	SEM	2	PASI-C
92391949024	DW-7	EPA 8260B	GAW	20	PASI-C
		EPA 8011	SEM	2	PASI-C
92391949025	DW-8	EPA 8260B	GAW	20	PASI-C
		EPA 8011	SEM	2	PASI-C
92391949026	DUP-1	EPA 8260B	GAW	20	PASI-C
		EPA 8011	SEM	2	PASI-C
92391949027	DUP-2	EPA 8260B	GAW	20	PASI-C
		EPA 8011	SEM	2	PASI-C
92391949028	FB	EPA 8260B	GAW	20	PASI-C
		EPA 8011	SEM	2	PASI-C
92391949029	TB	EPA 8260B	GAW	20	PASI-C
92391949030	SW-1	EPA 8011	SEM	2	PASI-C
		EPA 8260B	CAH	20	PASI-C
92391949031	SW-2	EPA 8011	SEM	2	PASI-C
		EPA 8260B	CAH	20	PASI-C

**REPORT OF LABORATORY ANALYSIS**

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**SUMMARY OF DETECTION**

Project STEADY SIMMONS 18856/56571  
 Pace Project No 92391949

Lab Sample ID	Client Sample ID					
Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
<b>92391949001</b>	<b>MW-1R</b>					
EPA 8260B	Benzene	2.7J	ug/L	5.0	07/19/18 08:37	
EPA 8260B	Ethylbenzene	38.6	ug/L	5.0	07/19/18 08:37	
EPA 8260B	Naphthalene	62.4	ug/L	5.0	07/19/18 08:37	
EPA 8260B	Toluene	11.3	ug/L	5.0	07/19/18 08:37	
EPA 8260B	Xylene (Total)	150	ug/L	5.0	07/19/18 08:37	
EPA 8260B	m&p-Xylene	94.9	ug/L	10.0	07/19/18 08:37	
EPA 8260B	o-Xylene	55.3	ug/L	5.0	07/19/18 08:37	
<b>92391949002</b>	<b>MW-2</b>					
EPA 8011	1,2-Dibromoethane (EDB)	2.1	ug/L	0.077	07/20/18 09:56	
EPA 8260B	Benzene	314	ug/L	100	07/19/18 23:07	
EPA 8260B	Ethylbenzene	725	ug/L	100	07/19/18 23:07	
EPA 8260B	Naphthalene	264	ug/L	100	07/19/18 23:07	
EPA 8260B	Toluene	3150	ug/L	100	07/19/18 23:07	
EPA 8260B	Xylene (Total)	4480	ug/L	100	07/19/18 23:07	
EPA 8260B	m&p-Xylene	2850	ug/L	200	07/19/18 23:07	
EPA 8260B	o-Xylene	1640	ug/L	100	07/19/18 23:07	
<b>92391949003</b>	<b>MW-3</b>					
EPA 8260B	Naphthalene	2.3J	ug/L	5.0	07/19/18 08:55	

**REPORT OF LABORATORY ANALYSIS**

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## PROJECT NARRATIVE

Project STEADY SIMMONS 18856/56571  
Pace Project No 92391949

---

**Method:** EPA 8011  
**Description:** 8011 GCS EDB and DBCP  
**Client:** SCDHEC  
**Date:** July 26, 2018

**General Information:**

30 samples were analyzed for EPA 8011. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

**Hold Time:**

The samples were analyzed within the method required hold times with any exceptions noted below

**Sample Preparation:**

The samples were prepared in accordance with EPA 8011 with any exceptions noted below

**Initial Calibrations (including MS Tune as applicable):**

All criteria were within method requirements with any exceptions noted below

**Continuing Calibration:**

All criteria were within method requirements with any exceptions noted below

**Surrogates:**

All surrogates were within QC limits with any exceptions noted below

QC Batch 419697

S5: Surrogate recovery outside control limits due to matrix interferences (not confirmed by re-analysis)

• MW-2 (Lab ID 92391949002)

• 1-Chloro-2-bromopropane (S)

**Method Blank:**

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

**Laboratory Control Spike:**

All laboratory control spike compounds were within QC limits with any exceptions noted below

**Matrix Spikes:**

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below

**Duplicate Sample:**

All duplicate sample results were within method acceptance criteria with any exceptions noted below

**Additional Comments:**

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: STEADY SIMMONS 18856/56571  
Pace Project No. 92391949

---

**Method:** EPA 8260B  
**Description:** 8260 MSV Low Level SC  
**Client:** SCDHEC  
**Date:** July 26, 2018

### General Information:

2 samples were analyzed for EPA 8260B. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

### Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

### Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

### Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

### Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

### Surrogates:

All surrogates were within QC limits with any exceptions noted below.

### Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

### Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

### Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 419803

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 92391822029

P5: The EPA or method required sample preservation degrades this compound, therefore acceptable recoveries may not be achieved in sample matrix spikes.

- MS (Lab ID: 2328929)
- tert-Butyl Formate

QC Batch: 420344

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 92391822030

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MSD (Lab ID: 2328873)
- Methyl-tert-butyl ether

### Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

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## PROJECT NARRATIVE

Project STEADY SIMMONS 18856/56571  
Pace Project No. 92391949

---

**Method:** EPA 8260B  
**Description:** 8260 MSV Low Level SC  
**Client:** SCDHEC  
**Date:** July 26, 2018

**Additional Comments:**

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## PROJECT NARRATIVE

Project: STEADY SIMMONS 18856/56571  
Pace Project No: 92391949

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**Method:** EPA 8260B  
**Description:** 8260 MSV  
**Client:** SCDHEC  
**Date:** July 26, 2018

**General Information:**

29 samples were analyzed for EPA 8260B. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report

**Hold Time:**

The samples were analyzed within the method required hold times with any exceptions noted below.

**Initial Calibrations (including MS Tune as applicable):**

All criteria were within method requirements with any exceptions noted below

**Continuing Calibration:**

All criteria were within method requirements with any exceptions noted below

**Internal Standards:**

All internal standards were within QC limits with any exceptions noted below

**Surrogates:**

All surrogates were within QC limits with any exceptions noted below

**Method Blank:**

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below

**Laboratory Control Spike:**

All laboratory control spike compounds were within QC limits with any exceptions noted below

**Matrix Spikes:**

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below

QC Batch 419850

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s) 92391949009

M1: Matrix spike recovery exceeded QC limits Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID 2327589)
  - tert-Butyl Alcohol
- MSD (Lab ID 2327590)
  - tert-Butyl Alcohol

P5: The EPA or method required sample preservation degrades this compound, therefore acceptable recoveries may not be achieved in sample matrix spikes

- MS (Lab ID 2327589)
  - tert-Butyl Formate
- MSD (Lab ID: 2327590)
  - tert-Butyl Formate

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## PROJECT NARRATIVE

Project: STEADY SIMMONS 18856/56571  
Pace Project No: 92391949

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**Method:** EPA 8260B  
**Description:** 8260 MSV  
**Client:** SCDHEC  
**Date:** July 26, 2018

### QC Batch: 420045

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 92391949013

P5: The EPA or method required sample preservation degrades this compound, therefore acceptable recoveries may not be achieved in sample matrix spikes

- MS (Lab ID: 2328825)
- tert-Butyl Formate

### QC Batch: 420078

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 92391949019

P5: The EPA or method required sample preservation degrades this compound, therefore acceptable recoveries may not be achieved in sample matrix spikes

- MS (Lab ID: 2327769)
- tert-Butyl Formate

### QC Batch: 420395

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 92392459028

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery

- MS (Lab ID: 2330242)
- 3,3-Dimethyl-1-Butanol

P5: The EPA or method required sample preservation degrades this compound, therefore acceptable recoveries may not be achieved in sample matrix spikes

- MS (Lab ID: 2330242)
- tert-Butyl Formate

### Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below

### Additional Comments:

#### Analyte Comments:

### QC Batch: 419850

1g: Initial calibration evaluation met acceptance criteria. Compound did not meet additional accuracy assessment for percent error

- LCS (Lab ID: 2326677)
- 3,3-Dimethyl-1-Butanol

### QC Batch: 420045

1g: Initial calibration evaluation met acceptance criteria. Compound did not meet additional accuracy assessment for percent error

- LCS (Lab ID: 2327550)
- 3,3-Dimethyl-1-Butanol

### QC Batch: 420078

1g: Initial calibration evaluation met acceptance criteria. Compound did not meet additional accuracy assessment for percent error

- LCS (Lab ID: 2327767)
- 3,3-Dimethyl-1-Butanol

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### PROJECT NARRATIVE

Project STEADY SIMMONS 18856/56571  
Pace Project No 92391949

---

**Method:** EPA 8260B  
**Description:** 8260 MSV  
**Client:** SCDHEC  
**Date:** July 26, 2018

Analyte Comments.

QC Batch: 420395

- 1g Initial calibration evaluation met acceptance criteria. Compound did not meet additional accuracy assessment for percent error
  - LCS (Lab ID 2329254)
  - tert-Butyl Alcohol

This data package has been reviewed for quality and completeness and is approved for release.

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**ANALYTICAL RESULTS**

Project STEADY SIMMONS 18856/56571  
 Pace Project No 92391949

Sample: MW-1R		Lab ID: 92391949001		Collected: 07/12/18 15:00	Received 07/13/18 08 06	Matrx: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8011 GCS EDB and DBCP</b>		Analytical Method EPA 8011		Preparation Method: EPA 8011					
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	07/18/18 09:14	07/19/18 15 24	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	129	%	60-140		1	07/18/18 09:14	07/19/18 15 24	301-79-56	
<b>8260 MSV</b>		Analytical Method EPA 8260B							
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		07/19/18 08 37	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		07/19/18 08:37	994-05-8	
Benzene	2.7J	ug/L	5.0	1.7	1		07/19/18 08:37	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		07/19/18 08:37	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		07/19/18 08:37	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		07/19/18 08:37	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		07/19/18 08:37	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		07/19/18 08:37	108-20-3	
Ethanol	ND	ug/L	200	131	1		07/19/18 08 37	64-17-5	
Ethylbenzene	38.6	ug/L	5.0	1.6	1		07/19/18 08 37	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		07/19/18 08 37	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		07/19/18 08 37	1634-04-4	
Naphthalene	62.4	ug/L	5.0	2.0	1		07/19/18 08 37	91-20-3	
Toluene	11.3	ug/L	5.0	1.6	1		07/19/18 08 37	108-88-3	
Xylene (Total)	150	ug/L	5.0	5.0	1		07/19/18 08 37	1330-20-7	
m&p-Xylene	94.9	ug/L	10.0	3.1	1		07/19/18 08 37	179601-23-1	
o-Xylene	55.3	ug/L	5.0	1.6	1		07/19/18 08 37	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	99	%	70-130		1		07/19/18 08:37	460-00-4	
1,2-Dichloroethane-d4 (S)	98	%	70-130		1		07/19/18 08:37	17060-07-0	
Toluene-d8 (S)	102	%	70-130		1		07/19/18 08:37	2037-26-5	

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**ANALYTICAL RESULTS**

Project STEADY SIMMONS 18856/56571  
 Pace Project No : 92391949

Sample: MW-2 Lab ID: 92391949002 Collected: 07/12/18 14:39 Received: 07/13/18 08:06 Matrix: Water									
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No	Qual
			Limit	MDL	DF				
<b>8011 GCS EDB and DBCP</b> Analytical Method: EPA 8011 Preparation Method: EPA 8011									
1,2-Dibromoethane (EDB)	2.1	ug/L	0.077	0.077	4	07/18/18 09:14	07/20/18 09:56	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	153	%	60-140		4	07/18/18 09:14	07/20/18 09:56	301-79-56	S5
<b>8260 MSV</b> Analytical Method: EPA 8260B									
tert-Amyl Alcohol	ND	ug/L	2000	1540	20		07/19/18 23:07	75-85-4	
tert-Amylmethyl ether	ND	ug/L	200	68.0	20		07/19/18 23:07	994-05-8	
Benzene	314	ug/L	100	34.0	20		07/19/18 23:07	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	2000	642	20		07/19/18 23:07	624-95-3	
tert-Butyl Alcohol	ND	ug/L	2000	1150	20		07/19/18 23:07	75-65-0	
tert-Butyl Formate	ND	ug/L	1000	146	20		07/19/18 23:07	762-75-4	
1,2-Dichloroethane	ND	ug/L	100	36.0	20		07/19/18 23:07	107-06-2	
Diisopropyl ether	ND	ug/L	100	34.0	20		07/19/18 23:07	108-20-3	
Ethanol	ND	ug/L	4000	2620	20		07/19/18 23:07	64-17-5	
Ethylbenzene	725	ug/L	100	32.0	20		07/19/18 23:07	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	200	72.0	20		07/19/18 23:07	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	100	34.0	20		07/19/18 23:07	1634-04-4	
Naphthalene	264	ug/L	100	40.0	20		07/19/18 23:07	91-20-3	
Toluene	3150	ug/L	100	32.0	20		07/19/18 23:07	108-88-3	
Xylene (Total)	4480	ug/L	100	100	20		07/19/18 23:07	1330-20-7	
m&p-Xylene	2850	ug/L	200	62.0	20		07/19/18 23:07	179601-23-1	
o-Xylene	1640	ug/L	100	32.0	20		07/19/18 23:07	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	97	%	70-130		20		07/19/18 23:07	460-00-4	
1,2-Dichloroethane-d4 (S)	98	%	70-130		20		07/19/18 23:07	17060-07-0	
Toluene-d8 (S)	100	%	70-130		20		07/19/18 23:07	2037-26-5	

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**ANALYTICAL RESULTS**

Project: STEADY SIMMONS 18856/56571  
 Pace Project No 92391949

Sample: MW-3 Lab ID: 92391949003 Collected: 07/12/18 13:29 Received: 07/13/18 08:06 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No	Qual
<b>8011 GCS EDB and DBCP</b>									
Analytical Method: EPA 8011 Preparation Method: EPA 8011									
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	0.019	1	07/18/18 09:14	07/19/18 16:03	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	112	%	60-140		1	07/18/18 09:14	07/19/18 16:03	301-79-56	
<b>8260 MSV</b>									
Analytical Method: EPA 8260B									
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		07/19/18 08:55	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		07/19/18 08:55	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		07/19/18 08:55	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		07/19/18 08:55	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		07/19/18 08:55	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		07/19/18 08:55	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		07/19/18 08:55	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		07/19/18 08:55	108-20-3	
Ethanol	ND	ug/L	200	131	1		07/19/18 08:55	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		07/19/18 08:55	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		07/19/18 08:55	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		07/19/18 08:55	1634-04-4	
Naphthalene	2.3J	ug/L	5.0	2.0	1		07/19/18 08:55	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		07/19/18 08:55	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		07/19/18 08:55	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	3.1	1		07/19/18 08:55	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		07/19/18 08:55	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	ND	%	70-130		1		07/19/18 08:55	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%	70-130		1		07/19/18 08:55	17060-07-0	
Toluene-d8 (S)	101	%	70-130		1		07/19/18 08:55	2037-26-5	

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**ANALYTICAL RESULTS**

Project STEADY SIMMONS 18856/56571  
 Pace Project No 92391949

Sample: MW-4 Lab ID: 92391949004 Collected 07/12/18 10 40 Received: 07/13/18 08 06 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No	Qual
			Limit	MDL	DF				
<b>8011 GCS EDB and DBCP</b>									
Analytical Method: EPA 8011 Preparation Method: EPA 8011									
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	0.019	1	07/18/18 09:14	07/19/18 16:23	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	111	%	60-140		1	07/18/18 09:14	07/19/18 16:23	301-79-56	
<b>8260 MSV</b>									
Analytical Method: EPA 8260B									
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		07/19/18 09:13	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		07/19/18 09:13	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		07/19/18 09:13	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		07/19/18 09:13	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		07/19/18 09:13	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		07/19/18 09:13	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		07/19/18 09:13	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		07/19/18 09:13	108-20-3	
Ethanol	ND	ug/L	200	131	1		07/19/18 09:13	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		07/19/18 09:13	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		07/19/18 09:13	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		07/19/18 09:13	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		07/19/18 09:13	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		07/19/18 09:13	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		07/19/18 09:13	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	3.1	1		07/19/18 09:13	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		07/19/18 09:13	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	100	%	70-130		1		07/19/18 09:13	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%	70-130		1		07/19/18 09:13	17060-07-0	
Toluene-d8 (S)	102	%	70-130		1		07/19/18 09:13	2037-26-5	

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**ANALYTICAL RESULTS**

Project STEADY SIMMONS 18856/56571  
 Pace Project No 92391949

Sample: MW-5		Lab ID: 92391949005		Collected	07/12/18 14.15	Received:	07/13/18 08:06	Matrix	Water
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No	Qual
<b>8011 GCS EDB and DBCP</b>		Analytical Method: EPA 8011 Preparation Method EPA 8011							
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	0.019	1	07/18/18 09:14	07/19/18 16:43	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	105	%	60-140		1	07/18/18 09:14	07/19/18 16:43	301-79-56	
<b>8260 MSV</b>		Analytical Method EPA 8260B							
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		07/19/18 09:31	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		07/19/18 09:31	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		07/19/18 09:31	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		07/19/18 09:31	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		07/19/18 09:31	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		07/19/18 09:31	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		07/19/18 09:31	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		07/19/18 09:31	108-20-3	
Ethanol	ND	ug/L	200	131	1		07/19/18 09:31	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		07/19/18 09:31	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		07/19/18 09:31	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		07/19/18 09:31	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		07/19/18 09:31	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		07/19/18 09:31	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		07/19/18 09:31	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	3.1	1		07/19/18 09:31	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		07/19/18 09:31	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	100	%	70-130		1		07/19/18 09:31	460-00-4	
1,2-Dichloroethane-d4 (S)	99	%	70-130		1		07/19/18 09:31	17060-07-0	
Toluene-d8 (S)	103	%	70-130		1		07/19/18 09:31	2037-26-5	

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**ANALYTICAL RESULTS**

Project: STEADY SIMMONS 18856/56571  
 Pace Project No.: 92391949

Sample: MW-6		Lab ID: 92391949006		Collected: 07/12/18 14 10	Received: 07/13/18 08:06	Matrix: Water				
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual	
<b>8011 GCS EDB and DBCP</b>		Analytical Method EPA 8011		Preparation Method EPA 8011						
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	0.019	1	07/18/18 09 14	07/19/18 17:03	106-93-4		
<b>Surrogates</b>										
1-Chloro-2-bromopropane (S)	122	%	60-140		1	07/18/18 09 14	07/19/18 17:03	301-79-56		
<b>8260 MSV</b>		Analytical Method EPA 8260B								
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		07/19/18 09 49	75-85-4		
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		07/19/18 09:49	994-05-8		
Benzene	ND	ug/L	5.0	1.7	1		07/19/18 09:49	71-43-2		
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		07/19/18 09 49	624-95-3		
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		07/19/18 09 49	75-65-0		
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		07/19/18 09 49	762-75-4		
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		07/19/18 09 49	107-06-2		
Diisopropyl ether	ND	ug/L	5.0	1.7	1		07/19/18 09 49	108-20-3		
Ethanol	ND	ug/L	200	131	1		07/19/18 09 49	64-17-5		
Ethylbenzene	ND	ug/L	5.0	1.6	1		07/19/18 09 49	100-41-4		
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		07/19/18 09 49	637-92-3		
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		07/19/18 09 49	1634-04-4		
Naphthalene	ND	ug/L	5.0	2.0	1		07/19/18 09 49	91-20-3		
Toluene	ND	ug/L	5.0	1.6	1		07/19/18 09 49	108-88-3		
Xylene (Total)	ND	ug/L	5.0	5.0	1		07/19/18 09 49	1330-20-7		
m&p-Xylene	ND	ug/L	10.0	3.1	1		07/19/18 09 49	179601-23-1		
o-Xylene	ND	ug/L	5.0	1.6	1		07/19/18 09 49	95-47-6		
<b>Surrogates</b>										
4-Bromofluorobenzene (S)	100	%	70-130		1		07/19/18 09 49	460-00-4		
1,2-Dichloroethane-d4 (S)	100	%	70-130		1		07/19/18 09 49	17060-07-0		
Toluene-d8 (S)	101	%	70-130		1		07/19/18 09 49	2037-26-5		

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**ANALYTICAL RESULTS**

Project STEADY SIMMONS 18856/56571  
 Pace Project No.. 92391949

Sample: MW-7		Lab ID: 92391949007		Collected: 07/12/18 14 20	Received 07/13/18 08 06	Matrix	Water				
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No	Qual		
			Limit	MDL	DF						
<b>8011 GCS EDB and DBCP</b>		Analytical Method EPA 8011		Preparation Method: EPA 8011							
1,2-Dibromoethane (EDB)	ND	ug/L	0 019	0 019	1	07/18/18 09 14	07/19/18 17 23	106-93-4			
<b>Surrogates</b>											
1-Chloro-2-bromopropane (S)	108	%	60-140		1	07/18/18 09 14	07/19/18 17.23	301-79-56			
<b>8260 MSV</b>		Analytical Method EPA 8260B									
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		07/19/18 10 07	75-85-4			
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		07/19/18 10 07	994-05-8			
Benzene	ND	ug/L	5.0	1.7	1		07/19/18 10 07	71-43-2			
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		07/19/18 10 07	624-95-3			
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		07/19/18 10 07	75-65-0			
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		07/19/18 10 07	762-75-4			
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		07/19/18 10 07	107-06-2			
Diisopropyl ether	ND	ug/L	5.0	1.7	1		07/19/18 10 07	108-20-3			
Ethanol	ND	ug/L	200	131	1		07/19/18 10 07	64-17-5			
Ethylbenzene	ND	ug/L	5.0	1.6	1		07/19/18 10 07	100-41-4			
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		07/19/18 10:07	637-92-3			
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		07/19/18 10.07	1634-04-4			
Naphthalene	ND	ug/L	5.0	2.0	1		07/19/18 10:07	91-20-3			
Toluene	ND	ug/L	5.0	1.6	1		07/19/18 10:07	108-88-3			
Xylene (Total)	ND	ug/L	5.0	5.0	1		07/19/18 10:07	1330-20-7			
m&p-Xylene	ND	ug/L	10.0	3.1	1		07/19/18 10:07	179601-23-1			
o-Xylene	ND	ug/L	5.0	1.6	1		07/19/18 10:07	95-47-6			
<b>Surrogates</b>											
4-Bromofluorobenzene (S)	99	%	70-130		1		07/19/18 10:07	460-00-4			
1,2-Dichloroethane-d4 (S)	100	%	70-130		1		07/19/18 10:07	17060-07-0			
Toluene-d8 (S)	101	%	70-130		1		07/19/18 10:07	2037-26-5			

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**ANALYTICAL RESULTS**

Project STEADY SIMMONS 18856/56571  
 Pace Project No 92391949

Sample: MW-8		Lab ID: 92391949008		Collected	07/12/18 14 15	Received	07/13/18 08 06	Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No	Qual
<b>8011 GCS EDB and DBCP</b>		Analytical Method: EPA 8011 Preparation Method EPA 8011							
1,2-Dibromoethane (EDB)	ND	ug/L	0 019	0 019	1	07/18/18 09 14	07/19/18 18.23	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	111	%	60-140		1	07/18/18 09 14	07/19/18 18:23	301-79-56	
<b>8260 MSV</b>		Analytical Method: EPA 8260B							
tert-Amyl Alcohol	ND	ug/L	100	76 8	1		07/19/18 10 25	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10 0	3 4	1		07/19/18 10:25	994-05-8	
Benzene	ND	ug/L	5.0	1 7	1		07/19/18 10 25	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32 1	1		07/19/18 10 25	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57 7	1		07/19/18 10 25	75-65-0	
tert-Butyl Formate	ND	ug/L	50 0	7 3	1		07/19/18 10 25	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1 8	1		07/19/18 10.25	107-06-2	
Diisopropyl ether	ND	ug/L	5 0	1 7	1		07/19/18 10 25	108-20-3	
Ethanol	ND	ug/L	200	131	1		07/19/18 10 25	64-17-5	
Ethylbenzene	ND	ug/L	5 0	1 6	1		07/19/18 10 25	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10 0	3 6	1		07/19/18 10:25	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5 0	1 7	1		07/19/18 10 25	1634-04-4	
Naphthalene	ND	ug/L	5 0	2 0	1		07/19/18 10 25	91-20-3	
Toluene	ND	ug/L	5 0	1 6	1		07/19/18 10 25	108-88-3	
Xylene (Total)	ND	ug/L	5 0	5 0	1		07/19/18 10 25	1330-20-7	
m&p-Xylene	ND	ug/L	10 0	3 1	1		07/19/18 10 25	179601-23-1	
o-Xylene	ND	ug/L	5 0	1 6	1		07/19/18 10 25	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	98	%	70-130		1		07/19/18 10 25	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%	70-130		1		07/19/18 10 25	17060-07-0	
Toluene-d8 (S)	102	%	70-130		1		07/19/18 10 25	2037-26-5	

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**ANALYTICAL RESULTS**

Project STEADY SIMMONS 18856/56571  
 Pace Project No 92391949

Sample: MW-9 Lab ID: 92391949009 Collected: 07/12/18 13:33 Received: 07/13/18 08 06 Matrix Water									
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No	Qual
<b>8011 GCS EDB and DBCP</b>									
Analytical Method EPA 8011 Preparation Method EPA 8011									
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	0.019	1	07/18/18 09.14	07/19/18 18.42	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	106	%	60-140		1	07/18/18 09.14	07/19/18 18.42	301-79-56	
<b>8260 MSV</b>									
Analytical Method EPA 8260B									
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		07/19/18 10.42	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		07/19/18 10.42	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		07/19/18 10.42	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		07/19/18 10.42	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		07/19/18 10.42	75-65-0	M1
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		07/19/18 10.42	762-75-4	P5
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		07/19/18 10.42	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		07/19/18 10.42	108-20-3	
Ethanol	ND	ug/L	200	131	1		07/19/18 10.42	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		07/19/18 10.42	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		07/19/18 10.42	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		07/19/18 10.42	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		07/19/18 10.42	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		07/19/18 10.42	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		07/19/18 10.42	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	3.1	1		07/19/18 10.42	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		07/19/18 10.42	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	99	%	70-130		1		07/19/18 10.42	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%	70-130		1		07/19/18 10.42	17060-07-0	
Toluene-d8 (S)	102	%	70-130		1		07/19/18 10.42	2037-26-5	

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**ANALYTICAL RESULTS**

Project: STEADY SIMMONS 18856/56571  
 Pace Project No: 92391949

Sample: MW-10		Lab ID: 92391949010		Collected	07/12/18 12:50	Received	07/13/18 08:06	Matrx	Water
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No	Qual
<b>8011 GCS EDB and DBCP</b>		Analytical Method EPA 8011 Preparation Method: EPA 8011							
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	0.019	1	07/18/18 09:14	07/19/18 19:02	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	97	%	60-140		1	07/18/18 09:14	07/19/18 19:02	301-79-56	
<b>8260 MSV</b>		Analytical Method EPA 8260B							
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		07/19/18 11:00	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		07/19/18 11:00	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		07/19/18 11:00	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		07/19/18 11:00	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		07/19/18 11:00	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		07/19/18 11:00	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		07/19/18 11:00	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		07/19/18 11:00	108-20-3	
Ethanol	ND	ug/L	200	131	1		07/19/18 11:00	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		07/19/18 11:00	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		07/19/18 11:00	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		07/19/18 11:00	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		07/19/18 11:00	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		07/19/18 11:00	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		07/19/18 11:00	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	3.1	1		07/19/18 11:00	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		07/19/18 11:00	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	100	%	70-130		1		07/19/18 11:00	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%	70-130		1		07/19/18 11:00	17060-07-0	
Toluene-d8 (S)	102	%	70-130		1		07/19/18 11:00	2037-26-5	

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**ANALYTICAL RESULTS**

Project: STEADY SIMMONS 18856/56571  
 Pace Project No.: 92391949

Sample: MW-11		Lab ID: 92391949011		Collected: 07/12/18 12:45	Received 07/13/18 08:06	Matrix	Water		
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8011 GCS EDB and DBCP</b>		Analytical Method EPA 8011		Preparation Method: EPA 8011					
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	07/18/18 09:14	07/19/18 19:42	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	109	%	60-140		1	07/18/18 09:14	07/19/18 19:42	301-79-56	
<b>8260 MSV</b>		Analytical Method EPA 8260B							
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		07/19/18 17:48	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		07/19/18 17:48	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		07/19/18 17:48	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		07/19/18 17:48	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		07/19/18 17:48	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		07/19/18 17:48	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		07/19/18 17:48	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		07/19/18 17:48	108-20-3	
Ethanol	ND	ug/L	200	131	1		07/19/18 17:48	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		07/19/18 17:48	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		07/19/18 17:48	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		07/19/18 17:48	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		07/19/18 17:48	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		07/19/18 17:48	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		07/19/18 17:48	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	3.1	1		07/19/18 17:48	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		07/19/18 17:48	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	100	%	70-130		1		07/19/18 17:48	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%	70-130		1		07/19/18 17:48	17060-07-0	
Toluene-d8 (S)	101	%	70-130		1		07/19/18 17:48	2037-26-5	

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**ANALYTICAL RESULTS**

Project STEADY SIMMONS 18856/56571  
 Pace Project No. 92391949

Sample: MW-12		Lab ID: 92391949012		Collected	07/12/18 11:10	Received	07/13/18 08:06	Matrx	Water
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8011 GCS EDB and DBCP</b>		Analytical Method: EPA 8011 Preparation Method: EPA 8011							
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	07/18/18 09:14	07/19/18 20:01	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	111	%	60-140		1	07/18/18 09:14	07/19/18 20:01	301-79-56	
<b>8260 MSV</b>		Analytical Method: EPA 8260B							
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		07/19/18 18:06	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		07/19/18 18:06	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		07/19/18 18:06	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		07/19/18 18:06	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		07/19/18 18:06	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		07/19/18 18:06	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		07/19/18 18:06	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		07/19/18 18:06	108-20-3	
Ethanol	ND	ug/L	200	131	1		07/19/18 18:06	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		07/19/18 18:06	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		07/19/18 18:06	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		07/19/18 18:06	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		07/19/18 18:06	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		07/19/18 18:06	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		07/19/18 18:06	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	3.1	1		07/19/18 18:06	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		07/19/18 18:06	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	99	%	70-130		1		07/19/18 18:06	460-00-4	
1,2-Dichloroethane-d4 (S)	99	%	70-130		1		07/19/18 18:06	17060-07-0	
Toluene-d8 (S)	103	%	70-130		1		07/19/18 18:06	2037-26-5	

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**ANALYTICAL RESULTS**

Project STEADY SIMMONS 18856/56571  
 Pace Project No. 92391949

Sample: MW-13		Lab ID: 92391949013		Collected	07/12/18 10:50	Received	07/13/18 08:06	Matrix	Water
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8011 GCS EDB and DBCP</b>		Analytical Method EPA 8011		Preparation Method EPA 8011					
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	0.019	1	07/18/18 09:14	07/19/18 20:21	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	101	%	60-140		1	07/18/18 09:14	07/19/18 20:21	301-79-56	
<b>8260 MSV</b>		Analytical Method: EPA 8260B							
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		07/19/18 18:23	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		07/19/18 18:23	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		07/19/18 18:23	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		07/19/18 18:23	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		07/19/18 18:23	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		07/19/18 18:23	762-75-4	P5
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		07/19/18 18:23	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		07/19/18 18:23	108-20-3	
Ethanol	ND	ug/L	200	131	1		07/19/18 18:23	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		07/19/18 18:23	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		07/19/18 18:23	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		07/19/18 18:23	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		07/19/18 18:23	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		07/19/18 18:23	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		07/19/18 18:23	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	3.1	1		07/19/18 18:23	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		07/19/18 18:23	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	99	%	70-130		1		07/19/18 18:23	460-00-4	
1,2-Dichloroethane-d4 (S)	99	%	70-130		1		07/19/18 18:23	17060-07-0	
Toluene-d8 (S)	101	%	70-130		1		07/19/18 18:23	2037-26-5	

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**ANALYTICAL RESULTS**

Project: STEADY SIMMONS 18856/56571  
 Pace Project No.: 92391949

Sample: MW-14		Lab ID: 92391949014		Collected	07/12/18 10:50	Received	07/13/18 08:06	Matrx	Water
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No	Qual
<b>8011 GCS EDB and DBCP</b>		Analytical Method EPA 8011		Preparation Method EPA 8011					
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	0.019	1	07/18/18 09:14	07/19/18 20:41	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	117	%	60-140		1	07/18/18 09:14	07/19/18 20:41	301-79-56	
<b>8260 MSV</b>		Analytical Method EPA 8260B							
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		07/19/18 18:41	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		07/19/18 18:41	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		07/19/18 18:41	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		07/19/18 18:41	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		07/19/18 18:41	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		07/19/18 18:41	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		07/19/18 18:41	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		07/19/18 18:41	108-20-3	
Ethanol	ND	ug/L	200	131	1		07/19/18 18:41	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		07/19/18 18:41	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		07/19/18 18:41	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		07/19/18 18:41	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		07/19/18 18:41	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		07/19/18 18:41	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		07/19/18 18:41	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	3.1	1		07/19/18 18:41	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		07/19/18 18:41	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	100	%	70-130		1		07/19/18 18:41	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%	70-130		1		07/19/18 18:41	17060-07-0	
Toluene-d8 (S)	101	%	70-130		1		07/19/18 18:41	2037-26-5	

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**ANALYTICAL RESULTS**

Project STEADY SIMMONS 18856/56571  
 Pace Project No 92391949

Sample: MW-15		Lab ID: 92391949015		Collected	07/12/18 11 10	Received	07/13/18 08.06	Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No	Qual
<b>8011 GCS EDB and DBCP</b>		Analytical Method: EPA 8011 Preparation Method EPA 8011							
1,2-Dibromoethane (EDB)	ND	ug/L	0 020	0 020	1	07/18/18 09:14	07/19/18 21 01	106-93-4	
<i>Surrogates</i>									
1-Chloro-2-bromopropane (S)	97	%	60-140		1	07/18/18 09:14	07/19/18 21:01	301-79-56	
<b>8260 MSV</b>		Analytical Method: EPA 8260B							
tert-Amyl Alcohol	ND	ug/L	100	76 8	1		07/19/18 18:59	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10 0	3.4	1		07/19/18 18:59	994-05-8	
Benzene	ND	ug/L	5 0	1.7	1		07/19/18 18:59	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32 1	1		07/19/18 18:59	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57 7	1		07/19/18 18:59	75-65-0	
tert-Butyl Formate	ND	ug/L	50 0	7 3	1		07/19/18 18:59	762-75-4	
1,2-Dichloroethane	ND	ug/L	5 0	1 8	1		07/19/18 18:59	107-06-2	
Diisopropyl ether	ND	ug/L	5 0	1 7	1		07/19/18 18:59	108-20-3	
Ethanol	ND	ug/L	200	131	1		07/19/18 18:59	64-17-5	
Ethylbenzene	ND	ug/L	5 0	1 6	1		07/19/18 18:59	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10 0	3 6	1		07/19/18 18:59	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5 0	1 7	1		07/19/18 18:59	1634-04-4	
Naphthalene	ND	ug/L	5 0	2 0	1		07/19/18 18:59	91-20-3	
Toluene	ND	ug/L	5 0	1 6	1		07/19/18 18:59	108-88-3	
Xylene (Total)	ND	ug/L	5 0	5 0	1		07/19/18 18:59	1330-20-7	
m&p-Xylene	ND	ug/L	10 0	3 1	1		07/19/18 18:59	179601-23-1	
o-Xylene	ND	ug/L	5 0	1 6	1		07/19/18 18:59	95-47-6	
<i>Surrogates</i>									
4-Bromofluorobenzene (S)	101	%	70-130				07/19/18 18:59	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%	70-130		1		07/19/18 18:59	17060-07-0	
Toluene-d8 (S)	104	%	70-130		1		07/19/18 18:59	2037-26-5	

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**ANALYTICAL RESULTS**

Project STEADY SIMMONS 18856/56571  
 Pace Project No 92391949

Sample: MW-16 Lab ID: 92391949016 Collected 07/12/18 11 30 Received: 07/13/18 08 06 Matrx: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No	Qual
			Limit	MDL	DF				
<b>8011 GCS EDB and DBCP</b>									
Analytical Method: EPA 8011 Preparation Method: EPA 8011									
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	0.019	1	07/18/18 09:15	07/19/18 22:39	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	115	%	60-140		1	07/18/18 09:15	07/19/18 22:39	301-79-56	
<b>8260 MSV</b>									
Analytical Method: EPA 8260B									
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		07/19/18 19:17	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		07/19/18 19:17	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		07/19/18 19:17	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		07/19/18 19:17	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		07/19/18 19:17	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		07/19/18 19:17	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		07/19/18 19:17	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		07/19/18 19:17	108-20-3	
Ethanol	ND	ug/L	200	131	1		07/19/18 19:17	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		07/19/18 19:17	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		07/19/18 19:17	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		07/19/18 19:17	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		07/19/18 19:17	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		07/19/18 19:17	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		07/19/18 19:17	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	3.1	1		07/19/18 19:17	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		07/19/18 19:17	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	99	%	70-130		1		07/19/18 19:17	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%	70-130		1		07/19/18 19:17	17060-07-0	
Toluene-d8 (S)	102	%	70-130		1		07/19/18 19:17	2037-26-5	

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**ANALYTICAL RESULTS**

Project STEADY SIMMONS 18856/56571  
 Pace Project No. 92391949

Sample: MW-17		Lab ID: 92391949017		Collected: 07/12/18 10:19		Received 07/13/18 08:06		Matrx Water		
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual	
			Limit	MDL	DF					
<b>8011 GCS EDB and DBCP</b>		Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	0.019	1	07/18/18 09:15	07/19/18 22:59	106-93-4		
<b>Surrogates</b>										
1-Chloro-2-bromopropane (S)	102	%	60-140		1	07/18/18 09:15	07/19/18 22:59	301-79-56		
<b>8260 MSV</b>		Analytical Method: EPA 8260B								
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		07/19/18 19:34	75-85-4		
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		07/19/18 19:34	994-05-8		
Benzene	ND	ug/L	5.0	1.7	1		07/19/18 19:34	71-43-2		
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		07/19/18 19:34	624-95-3		
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		07/19/18 19:34	75-65-0		
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		07/19/18 19:34	762-75-4		
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		07/19/18 19:34	107-06-2		
Diisopropyl ether	ND	ug/L	5.0	1.7	1		07/19/18 19:34	108-20-3		
Ethanol	ND	ug/L	200	131	1		07/19/18 19:34	64-17-5		
Ethylbenzene	ND	ug/L	5.0	1.6	1		07/19/18 19:34	100-41-4		
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		07/19/18 19:34	637-92-3		
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		07/19/18 19:34	1634-04-4		
Naphthalene	ND	ug/L	5.0	2.0	1		07/19/18 19:34	91-20-3		
Toluene	ND	ug/L	5.0	1.6	1		07/19/18 19:34	108-88-3		
Xylene (Total)	ND	ug/L	5.0	5.0	1		07/19/18 19:34	1330-20-7		
m&p-Xylene	ND	ug/L	10.0	3.1	1		07/19/18 19:34	179601-23-1		
o-Xylene	ND	ug/L	5.0	1.6	1		07/19/18 19:34	95-47-6		
<b>Surrogates</b>										
4-Bromofluorobenzene (S)	100	%	70-130		1		07/19/18 19:34	460-00-4		
1,2-Dichloroethane-d4 (S)	102	%	70-130		1		07/19/18 19:34	17060-07-0		
Toluene-d8 (S)	102	%	70-130		1		07/19/18 19:34	2037-26-5		

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**ANALYTICAL RESULTS**

Project STEADY SIMMONS 18856/56571  
 Pace Project No 92391949

Sample: DW-1		Lab ID: 92391949018		Collected	07/12/18 14 06	Received:	07/13/18 08 06	Matrix	Water
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No	Qual
<b>8011 GCS EDB and DBCP</b>		Analytical Method: EPA 8011		Preparation Method: EPA 8011					
1,2-Dibromoethane (EDB)	ND	ug/L	0 019	0 019	1	07/18/18 09 15	07/19/18 23 18	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	121	%	60-140		1	07/18/18 09 15	07/19/18 23 18	301-79-56	
<b>8260 MSV</b>		Analytical Method: EPA 8260B							
tert-Amyl Alcohol	ND	ug/L	100	76 8	1		07/20/18 03 33	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10 0	3.4	1		07/20/18 03 33	994-05-8	
Benzene	ND	ug/L	5 0	1 7	1		07/20/18 03 33	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32 1	1		07/20/18 03 33	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		07/20/18 03 33	75-65-0	
tert-Butyl Formate	ND	ug/L	50 0	7 3	1		07/20/18 03 33	762-75-4	
1,2-Dichloroethane	ND	ug/L	5 0	1 8	1		07/20/18 03 33	107-06-2	
Diisopropyl ether	ND	ug/L	5 0	1 7	1		07/20/18 03 33	108-20-3	
Ethanol	ND	ug/L	200	131	1		07/20/18 03 33	64-17-5	
Ethylbenzene	ND	ug/L	5 0	1 6	1		07/20/18 03 33	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10 0	3 6	1		07/20/18 03 33	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5 0	1 7	1		07/20/18 03 33	1634-04-4	
Naphthalene	ND	ug/L	5 0	2 0	1		07/20/18 03 33	91-20-3	
Toluene	ND	ug/L	5 0	1 6	1		07/20/18 03 33	108-88-3	
Xylene (Total)	ND	ug/L	5 0	5 0	1		07/20/18 03 33	1330-20-7	
m&p-Xylene	ND	ug/L	10 0	3 1	1		07/20/18 03 33	179601-23-1	
o-Xylene	ND	ug/L	5 0	1 6	1		07/20/18 03 33	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	107	%	70-130		1		07/20/18 03 33	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%	70-130		1		07/20/18 03 33	17060-07-0	
Toluene-d8 (S)	101	%	70-130		1		07/20/18 03 33	2037-26-5	

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**ANALYTICAL RESULTS**

Project STEADY SIMMONS 18856/56571  
 Pace Project No 92391949

Sample: DW-2 Lab ID: 92391949019 Collected: 07/12/18 14 10 Received 07/13/18 08:06 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No	Qual
			Limit	MDL	DF				
<b>8011 GCS EDB and DBCP</b>									
Analytical Method: EPA 8011 Preparation Method EPA 8011									
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	0.019	1	07/18/18 09 15	07/20/18 00 17	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	112	%	60-140		1	07/18/18 09:15	07/20/18 00 17	301-79-56	
<b>8260 MSV</b>									
Analytical Method EPA 8260B									
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		07/20/18 03:51	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		07/20/18 03:51	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		07/20/18 03:51	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		07/20/18 03:51	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		07/20/18 03:51	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		07/20/18 03:51	762-75-4	P5
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		07/20/18 03:51	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		07/20/18 03:51	108-20-3	
Ethanol	ND	ug/L	200	131	1		07/20/18 03:51	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		07/20/18 03:51	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		07/20/18 03:51	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		07/20/18 03:51	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		07/20/18 03:51	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		07/20/18 03:51	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		07/20/18 03:51	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	3.1	1		07/20/18 03:51	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		07/20/18 03:51	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	100	%	70-130		1		07/20/18 03:51	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%	70-130		1		07/20/18 03:51	17060-07-0	
Toluene-d8 (S)	102	%	70-130		1		07/20/18 03:51	2037-26-5	

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**ANALYTICAL RESULTS**

Project: STEADY SIMMONS 18856/56571  
 Pace Project No 92391949

Sample: DW-3 Lab ID: 92391949020 Collected 07/12/18 13:08 Received 07/13/18 08:06 Matrix: Water									
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No	Qual
<b>8011 GCS EDB and DBCP</b> Analytical Method EPA 8011 Preparation Method: EPA 8011									
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	0.019	1	07/18/18 09:15	07/20/18 00:57	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	116	%	60-140		1	07/18/18 09:15	07/20/18 00:57	301-79-56	
<b>8260 MSV</b> Analytical Method EPA 8260B									
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		07/20/18 04:09	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		07/20/18 04:09	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		07/20/18 04:09	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		07/20/18 04:09	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		07/20/18 04:09	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		07/20/18 04:09	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		07/20/18 04:09	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		07/20/18 04:09	108-20-3	
Ethanol	ND	ug/L	200	131	1		07/20/18 04:09	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		07/20/18 04:09	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		07/20/18 04:09	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		07/20/18 04:09	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		07/20/18 04:09	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		07/20/18 04:09	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		07/20/18 04:09	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	3.1	1		07/20/18 04:09	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		07/20/18 04:09	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	99	%	70-130		1		07/20/18 04:09	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%	70-130		1		07/20/18 04:09	17060-07-0	
Toluene-d8 (S)	101	%	70-130		1		07/20/18 04:09	2037-26-5	

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**ANALYTICAL RESULTS**

Project: STEADY SIMMONS 18856/56571  
 Pace Project No 92391949

Sample: DW-4 Lab ID: 92391949021 Collected: 07/12/18 11 20 Received 07/13/18 08 06 Matrx: Water									
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No	Qual
<b>8011 GCS EDB and DBCP</b> Analytical Method EPA 8011 Preparation Method EPA 8011									
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	0.019	1	07/18/18 09 15	07/20/18 01 16	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	105	%	60-140		1	07/18/18 09:15	07/20/18 01.16	301-79-56	
<b>8260 MSV</b> Analytical Method EPA 8260B									
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		07/20/18 04 26	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		07/20/18 04 26	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		07/20/18 04 26	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		07/20/18 04 26	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		07/20/18 04:26	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		07/20/18 04 26	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		07/20/18 04 26	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		07/20/18 04 26	108-20-3	
Ethanol	ND	ug/L	200	131	1		07/20/18 04 26	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		07/20/18 04 26	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		07/20/18 04.26	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		07/20/18 04:26	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		07/20/18 04:26	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		07/20/18 04 26	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		07/20/18 04 26	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	3.1	1		07/20/18 04 26	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		07/20/18 04.26	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	100	%	70-130		1		07/20/18 04 26	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%	70-130		1		07/20/18 04 26	17060-07-0	
Toluene-d8 (S)	102	%	70-130		1		07/20/18 04 26	2037-26-5	

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**ANALYTICAL RESULTS**

Project STEADY SIMMONS 18856/56571  
 Pace Project No 92391949

Sample: DW-5		Lab ID: 92391949022		Collected	07/12/18 11 56	Received	07/13/18 08 06	Matrix	Water
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>8011 GCS EDB and DBCP</b>		Analytical Method EPA 8011		Preparation Method. EPA 8011					
1,2-Dibromoethane (EDB)	ND	ug/L	0 019	0 019	1	07/18/18 09:15	07/20/18 01:36	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	102	%	60-140		1	07/18/18 09:15	07/20/18 01:36	301-79-56	
<b>8260 MSV</b>		Analytical Method EPA 8260B							
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		07/20/18 04:44	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		07/20/18 04:44	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		07/20/18 04:44	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		07/20/18 04:44	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		07/20/18 04:44	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		07/20/18 04:44	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		07/20/18 04:44	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		07/20/18 04:44	108-20-3	
Ethanol	ND	ug/L	200	131	1		07/20/18 04:44	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		07/20/18 04:44	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		07/20/18 04:44	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		07/20/18 04:44	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		07/20/18 04:44	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		07/20/18 04:44	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		07/20/18 04:44	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	3.1	1		07/20/18 04:44	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		07/20/18 04:44	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	101	%	70-130		1		07/20/18 04:44	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%	70-130		1		07/20/18 04:44	17060-07-0	
Toluene-d8 (S)	101	%	70-130		1		07/20/18 04:44	2037-26-5	

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**ANALYTICAL RESULTS**

Project STEADY SIMMONS 18856/56571  
 Pace Project No. 92391949

Sample: DW-6 Lab ID: 92391949023 Collected: 07/12/18 12 28 Received: 07/13/18 08 06 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No	Qual
			Limit	MDL	DF				
<b>8011 GCS EDB and DBCP</b>									
Analytical Method EPA 8011 Preparation Method EPA 8011									
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	0.019	1	07/18/18 09:15	07/20/18 01:56	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	114	%	60-140		1	07/18/18 09:15	07/20/18 01:56	301-79-56	
<b>8260 MSV</b>									
Analytical Method EPA 8260B									
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		07/20/18 05:02	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		07/20/18 05:02	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		07/20/18 05:02	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		07/20/18 05:02	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		07/20/18 05:02	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		07/20/18 05:02	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		07/20/18 05:02	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		07/20/18 05:02	108-20-3	
Ethanol	ND	ug/L	200	131	1		07/20/18 05:02	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		07/20/18 05:02	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		07/20/18 05:02	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		07/20/18 05:02	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		07/20/18 05:02	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		07/20/18 05:02	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		07/20/18 05:02	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	3.1	1		07/20/18 05:02	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		07/20/18 05:02	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	100	%	70-130		1		07/20/18 05:02	460-00-4	
1,2-Dichloroethane-d4 (S)	99	%	70-130		1		07/20/18 05:02	17060-07-0	
Toluene-d8 (S)	101	%	70-130		1		07/20/18 05:02	2037-26-5	

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**ANALYTICAL RESULTS**

Project: STEADY SIMMONS 18856/56571  
 Pace Project No.: 92391949

Sample: DW-7 Lab ID: 92391949024 Collected: 07/12/18 15:17 Received: 07/13/18 08:06 Matrix: Water									
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8011 GCS EDB and DBCP</b>									
Analytical Method EPA 8011 Preparation Method EPA 8011									
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	07/18/18 09:15	07/20/18 02:15	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	106	%	60-140		1	07/18/18 09:15	07/20/18 02:15	301-79-56	
<b>8260 MSV</b>									
Analytical Method EPA 8260B									
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		07/20/18 05:20	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		07/20/18 05:20	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		07/20/18 05:20	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		07/20/18 05:20	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		07/20/18 05:20	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		07/20/18 05:20	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		07/20/18 05:20	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		07/20/18 05:20	108-20-3	
Ethanol	ND	ug/L	200	131	1		07/20/18 05:20	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		07/20/18 05:20	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		07/20/18 05:20	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		07/20/18 05:20	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		07/20/18 05:20	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		07/20/18 05:20	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		07/20/18 05:20	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	3.1	1		07/20/18 05:20	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		07/20/18 05:20	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	99	%	70-130		1		07/20/18 05:20	460-00-4	
1,2-Dichloroethane-d4 (S)	99	%	70-130		1		07/20/18 05:20	17060-07-0	
Toluene-d8 (S)	101	%	70-130		1		07/20/18 05:20	2037-26-5	

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**ANALYTICAL RESULTS**

Project: STEADY SIMMONS 18856/56571  
 Pace Project No: 92391949

Sample: DW-8		Lab ID: 92391949025		Collected	07/12/18 10:45	Received	07/13/18 08:06	Matrix: Water		
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No	Qual	
			Limit	MDL	DF					
<b>8011 GCS EDB and DBCP</b>		Analytical Method: EPA 8011		Preparation Method: EPA 8011						
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	0.019	1	07/18/18 09:15	07/20/18 02:35	106-93-4		
<i>Surrogates</i>										
1-Chloro-2-bromopropane (S)	106	%	60-140		1	07/18/18 09:15	07/20/18 02:35	301-79-56		
<b>8260 MSV</b>		Analytical Method: EPA 8260B								
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		07/20/18 05:38	75-85-4		
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		07/20/18 05:38	994-05-8		
Benzene	ND	ug/L	5.0	1.7	1		07/20/18 05:38	71-43-2		
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		07/20/18 05:38	624-95-3		
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		07/20/18 05:38	75-65-0		
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		07/20/18 05:38	762-75-4		
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		07/20/18 05:38	107-06-2		
Diisopropyl ether	ND	ug/L	5.0	1.7	1		07/20/18 05:38	108-20-3		
Ethanol	ND	ug/L	200	131	1		07/20/18 05:38	64-17-5		
Ethylbenzene	ND	ug/L	5.0	1.6	1		07/20/18 05:38	100-41-4		
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		07/20/18 05:38	637-92-3		
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		07/20/18 05:38	1634-04-4		
Naphthalene	ND	ug/L	5.0	2.0	1		07/20/18 05:38	91-20-3		
Toluene	ND	ug/L	5.0	1.6	1		07/20/18 05:38	108-88-3		
Xylene (Total)	ND	ug/L	5.0	5.0	1		07/20/18 05:38	1330-20-7		
m&p-Xylene	ND	ug/L	10.0	3.1	1		07/20/18 05:38	179601-23-1		
o-Xylene	ND	ug/L	5.0	1.6	1		07/20/18 05:38	95-47-6		
<i>Surrogates</i>										
4-Bromofluorobenzene (S)	99	%	70-130		1		07/20/18 05:38	460-00-4		
1,2-Dichloroethane-d4 (S)	101	%	70-130		1		07/20/18 05:38	17060-07-0		
Toluene-d8 (S)	101	%	70-130		1		07/20/18 05:38	2037-26-5		

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**ANALYTICAL RESULTS**

Project STEADY SIMMONS 18856/56571  
 Pace Project No 92391949

Sample: DUP-1		Lab ID: 92391949026		Collected	07/12/18 14 10	Received	07/13/18 08 06	Matrix	Water
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>8011 GCS EDB and DBCP</b>		Analytical Method: EPA 8011		Preparation Method: EPA 8011					
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	0.019	1	07/18/18 09:15	07/20/18 02:55	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	106	%	60-140		1	07/18/18 09:15	07/20/18 02:55	301-79-56	
<b>8260 MSV</b>		Analytical Method: EPA 8260B							
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		07/20/18 05:55	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		07/20/18 05:55	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		07/20/18 05:55	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		07/20/18 05:55	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		07/20/18 05:55	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		07/20/18 05:55	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		07/20/18 05:55	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		07/20/18 05:55	108-20-3	
Ethanol	ND	ug/L	200	131	1		07/20/18 05:55	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		07/20/18 05:55	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		07/20/18 05:55	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		07/20/18 05:55	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		07/20/18 05:55	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		07/20/18 05:55	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		07/20/18 05:55	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	3.1	1		07/20/18 05:55	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		07/20/18 05:55	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	101	%	70-130		1		07/20/18 05:55	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%	70-130		1		07/20/18 05:55	17060-07-0	
Toluene-d8 (S)	101	%	70-130		1		07/20/18 05:55	2037-26-5	

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**ANALYTICAL RESULTS**

Project STEADY SIMMONS 18856/56571  
 Pace Project No 92391949

Sample: DUP-2		Lab ID: 92391949027		Collected	07/12/18 15:17	Received	07/13/18 08:06	Matrix	Water
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8011 GCS EDB and DBCP</b>		Analytical Method: EPA 8011 Preparation Method: EPA 8011							
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	0.019	1	07/18/18 09:15	07/20/18 03:14	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	105	%	60-140		1	07/18/18 09:15	07/20/18 03:14	301-79-56	
<b>8260 MSV</b>		Analytical Method: EPA 8260B							
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		07/21/18 04:24	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		07/21/18 04:24	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		07/21/18 04:24	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		07/21/18 04:24	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		07/21/18 04:24	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		07/21/18 04:24	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		07/21/18 04:24	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		07/21/18 04:24	108-20-3	
Ethanol	ND	ug/L	200	131	1		07/21/18 04:24	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		07/21/18 04:24	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		07/21/18 04:24	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		07/21/18 04:24	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		07/21/18 04:24	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		07/21/18 04:24	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		07/21/18 04:24	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	3.1	1		07/21/18 04:24	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		07/21/18 04:24	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	105	%	70-130		1		07/21/18 04:24	460-00-4	
1,2-Dichloroethane-d4 (S)	99	%	70-130		1		07/21/18 04:24	17060-07-0	
Toluene-d8 (S)	113	%	70-130		1		07/21/18 04:24	2037-26-5	

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**ANALYTICAL RESULTS**

Project STEADY SIMMONS 18856/56571  
 Pace Project No 92391949

Sample: FB Lab ID: 92391949028 Collected 07/12/18 15:20 Received 07/13/18 08:06 Matrix: Water									
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No	Qual
			Limit	MDL	DF				
<b>8011 GCS EDB and DBCP</b>									
Analytical Method EPA 8011 Preparation Method EPA 8011									
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	07/18/18 09:15	07/20/18 03:34	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	107	%	60-140		1	07/18/18 09:15	07/20/18 03:34	301-79-56	
<b>8260 MSV</b>									
Analytical Method EPA 8260B									
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		07/20/18 02:22	75-85-4	
tert-Amyl methyl ether	ND	ug/L	10.0	3.4	1		07/20/18 02:22	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		07/20/18 02:22	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		07/20/18 02:22	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		07/20/18 02:22	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		07/20/18 02:22	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		07/20/18 02:22	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		07/20/18 02:22	108-20-3	
Ethanol	ND	ug/L	200	131	1		07/20/18 02:22	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		07/20/18 02:22	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		07/20/18 02:22	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		07/20/18 02:22	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		07/20/18 02:22	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		07/20/18 02:22	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		07/20/18 02:22	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	3.1	1		07/20/18 02:22	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		07/20/18 02:22	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	99	%	70-130		1		07/20/18 02:22	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%	70-130		1		07/20/18 02:22	17060-07-0	
Toluene-d8 (S)	102	%	70-130		1		07/20/18 02:22	2037-26-5	

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**ANALYTICAL RESULTS**

Project STEADY SIMMONS 18856/56571  
 Pace Project No 92391949

Sample: TB Lab ID: 92391949029 Collected: 07/12/18 15 22 Received: 07/13/18 08:06 Matrix Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>8260 MSV</b>									
Analytical Method: EPA 8260B									
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		07/20/18 02:40	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		07/20/18 02:40	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		07/20/18 02:40	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		07/20/18 02:40	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		07/20/18 02:40	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		07/20/18 02:40	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		07/20/18 02:40	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		07/20/18 02:40	108-20-3	
Ethanol	ND	ug/L	200	131	1		07/20/18 02:40	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		07/20/18 02:40	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		07/20/18 02:40	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		07/20/18 02:40	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		07/20/18 02:40	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		07/20/18 02:40	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		07/20/18 02:40	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	3.1	1		07/20/18 02:40	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		07/20/18 02:40	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	101	%	70-130		1		07/20/18 02:40	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%	70-130		1		07/20/18 02:40	17060-07-0	
Toluene-d8 (S)	101	%	70-130		1		07/20/18 02:40	2037-26-5	

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**ANALYTICAL RESULTS**

Project STEADY SIMMONS 18856/56571  
 Pace Project No 92391949

Sample: SW-1		Lab ID: 92391949030		Collected	07/12/18 15 30	Received	07/13/18 08:06	Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No	Qual
<b>8011 GCS EDB and DBCP</b>		Analytical Method EPA 8011		Preparation Method EPA 8011					
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	07/18/18 09:15	07/20/18 03:54	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	104	%	60-140		1	07/18/18 09:15	07/20/18 03:54	301-79-56	
<b>8260 MSV Low Level SC</b>		Analytical Method EPA 8260B							
tert-Amyl Alcohol	ND	ug/L	100	50.0	1		07/18/18 17:52	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	0.10	1		07/18/18 17:52	994-05-8	
Benzene	ND	ug/L	1.0	0.25	1		07/18/18 17:52	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	50.0	1		07/18/18 17:52	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	3.6	1		07/18/18 17:52	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	1.9	1		07/18/18 17:52	762-75-4	
1,2-Dichloroethane	ND	ug/L	1.0	0.24	1		07/18/18 17:52	107-06-2	
Diisopropyl ether	ND	ug/L	1.0	0.12	1		07/18/18 17:52	108-20-3	
Ethanol	ND	ug/L	200	131	1		07/18/18 17:52	64-17-5	
Ethylbenzene	ND	ug/L	1.0	0.30	1		07/18/18 17:52	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	0.070	1		07/18/18 17:52	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.21	1		07/18/18 17:52	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.24	1		07/18/18 17:52	91-20-3	
Toluene	ND	ug/L	1.0	0.26	1		07/18/18 17:52	108-88-3	
Xylene (Total)	ND	ug/L	1.0	1.0	1		07/18/18 17:52	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.66	1		07/18/18 17:52	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.23	1		07/18/18 17:52	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	95	%	70-130		1		07/18/18 17:52	460-00-4	
1,2-Dichloroethane-d4 (S)	97	%	70-130		1		07/18/18 17:52	17060-07-0	
Toluene-d8 (S)	99	%	70-130		1		07/18/18 17:52	2037-26-5	

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**ANALYTICAL RESULTS**

Project STEADY SIMMONS 18856/56571  
 Pace Project No.: 92391949

Sample: SW-2		Lab ID: 92391949031		Collected	07/12/18 15 32	Received:	07/13/18 08.06	Matrx	Water
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8011 GCS EDB and DBCP</b>		Analytical Method EPA 8011		Preparation Method EPA 8011					
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	07/18/18 09:15	07/20/18 04:13	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	106	%	60-140		1	07/18/18 09 15	07/20/18 04 13	301-79-56	
<b>8260 MSV Low Level SC</b>		Analytical Method EPA 8260B							
tert-Amyl Alcohol	ND	ug/L	100	50.0	1		07/20/18 18:48	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	0.10	1		07/20/18 18:48	994-05-8	
Benzene	ND	ug/L	1.0	0.25	1		07/20/18 18:48	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	50.0	1		07/20/18 18:48	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	3.6	1		07/20/18 18:48	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	1.9	1		07/20/18 18:48	762-75-4	
1,2-Dichloroethane	ND	ug/L	1.0	0.24	1		07/20/18 18:48	107-06-2	
Diisopropyl ether	ND	ug/L	1.0	0.12	1		07/20/18 18:48	108-20-3	
Ethanol	ND	ug/L	200	131	1		07/20/18 18:48	64-17-5	
Ethylbenzene	ND	ug/L	1.0	0.30	1		07/20/18 18:48	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	0.070	1		07/20/18 18:48	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.21	1		07/20/18 18:48	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.24	1		07/20/18 18:48	91-20-3	
Toluene	ND	ug/L	1.0	0.26	1		07/20/18 18:48	108-88-3	
Xylene (Total)	ND	ug/L	1.0	1.0	1		07/20/18 18:48	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.66	1		07/20/18 18:48	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.23	1		07/20/18 18:48	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	96	%	70-130		1		07/20/18 18:48	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%	70-130		1		07/20/18 18:48	17060-07-0	
Toluene-d8 (S)	104	%	70-130		1		07/20/18 18:48	2037-26-5	

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**QUALITY CONTROL DATA**

Project: STEADY SIMMONS 18856/56571  
 Pace Project No.: 92391949

QC Batch: 419803 Analysis Method: EPA 8260B  
 QC Batch Method: EPA 8260B Analysis Description: 8260 MSV Low Level SC  
 Associated Lab Samples: 92391949030

METHOD BLANK 2326331 Matrix Water  
 Associated Lab Samples: 92391949030

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	1.0	0.24	07/18/18 13:14	
3,3-Dimethyl-1-Butanol	ug/L	ND	100	50.0	07/18/18 13:14	
Benzene	ug/L	ND	1.0	0.25	07/18/18 13:14	
Diisopropyl ether	ug/L	ND	1.0	0.12	07/18/18 13:14	
Ethanol	ug/L	ND	200	131	07/18/18 13:14	
Ethyl-tert-butyl ether	ug/L	ND	10.0	0.070	07/18/18 13:14	
Ethylbenzene	ug/L	ND	1.0	0.30	07/18/18 13:14	
m&p-Xylene	ug/L	ND	2.0	0.66	07/18/18 13:14	
Methyl-tert-butyl ether	ug/L	ND	1.0	0.21	07/18/18 13:14	
Naphthalene	ug/L	ND	1.0	0.24	07/18/18 13:14	
o-Xylene	ug/L	ND	1.0	0.23	07/18/18 13:14	
tert-Amyl Alcohol	ug/L	ND	100	50.0	07/18/18 13:14	
tert-Amylmethyl ether	ug/L	ND	10.0	0.10	07/18/18 13:14	
tert-Butyl Alcohol	ug/L	ND	100	3.6	07/18/18 13:14	
tert-Butyl Formate	ug/L	ND	50.0	1.9	07/18/18 13:14	
Toluene	ug/L	ND	1.0	0.26	07/18/18 13:14	
Xylene (Total)	ug/L	ND	1.0	1.0	07/18/18 13:14	
1,2-Dichloroethane-d4 (S)	%	90	70-130		07/18/18 13:14	
4-Bromofluorobenzene (S)	%	95	70-130		07/18/18 13:14	
Toluene-d8 (S)	%	105	70-130		07/18/18 13:14	

LABORATORY CONTROL SAMPLE 2326332

Parameter	Units	Spike Conc	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	50	48.1	96	70-130	
3,3-Dimethyl-1-Butanol	ug/L	1000	961	96	70-130	
Benzene	ug/L	50	51.3	103	70-130	
Diisopropyl ether	ug/L	50	51.9	104	70-130	
Ethanol	ug/L	2000	2110	105	70-130	
Ethyl-tert-butyl ether	ug/L	100	98.3	98	70-130	
Ethylbenzene	ug/L	50	51.6	103	70-130	
m&p-Xylene	ug/L	100	104	104	70-130	
Methyl-tert-butyl ether	ug/L	50	46.7	93	70-130	
Naphthalene	ug/L	50	54.0	108	70-130	
o-Xylene	ug/L	50	52.7	105	70-130	
tert-Amyl Alcohol	ug/L	1000	1040	104	70-130	
tert-Amylmethyl ether	ug/L	100	102	102	70-130	
tert-Butyl Alcohol	ug/L	500	450	90	70-130	
tert-Butyl Formate	ug/L	400	465	116	70-130	
Toluene	ug/L	50	50.0	100	70-130	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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**QUALITY CONTROL DATA**

Project: STEADY SIMMONS 18856/56571  
 Pace Project No. 92391949

LABORATORY CONTROL SAMPLE 2326332

Parameter	Units	Spike Conc	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Xylene (Total)	ug/L	150	157	105	70-130	
1,2-Dichloroethane-d4 (S)	%			96	70-130	
4-Bromofluorobenzene (S)	%			98	70-130	
Toluene-d8 (S)	%			97	70-130	

MATRIX SPIKE SAMPLE 2328929

Parameter	Units	92391822029 Result	Spike Conc	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	ND	20	19.1	96	70-130	
3,3-Dimethyl-1-Butanol	ug/L	ND	400	372	93	70-130	
Benzene	ug/L	ND	20	20.8	104	70-130	
Diisopropyl ether	ug/L	0.86J	20	20.9	100	70-130	
Ethanol	ug/L	ND	800	772	97	70-130	
Ethyl-tert-butyl ether	ug/L	ND	40	39.2	98	70-130	
Ethylbenzene	ug/L	ND	20	21.0	105	70-130	
m&p-Xylene	ug/L	ND	40	41.3	103	70-130	
Methyl-tert-butyl ether	ug/L	5.0	20	26.7	109	70-130	
Naphthalene	ug/L	ND	20	18.8	94	70-130	
o-Xylene	ug/L	ND	20	20.2	101	70-130	
tert-Amyl Alcohol	ug/L	ND	400	404	101	70-130	
tert-Amylmethyl ether	ug/L	ND	40	41.4	104	70-130	
tert-Butyl Alcohol	ug/L	ND	200	243	121	70-130	
tert-Butyl Formate	ug/L	ND	160	80.4	50	70-130 P5	
Toluene	ug/L	ND	20	20.5	102	70-130	
Xylene (Total)	ug/L	ND	60	61.4	102	70-130	
1,2-Dichloroethane-d4 (S)	%				98	70-130	
4-Bromofluorobenzene (S)	%				98	70-130	
Toluene-d8 (S)	%				101	70-130	

SAMPLE DUPLICATE 2328930

Parameter	Units	92391822033 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2-Dichloroethane	ug/L	ND	ND		30	
3,3-Dimethyl-1-Butanol	ug/L	ND	ND		30	
Benzene	ug/L	ND	ND		30	
Diisopropyl ether	ug/L	ND	ND		30	
Ethanol	ug/L	ND	ND		30	
Ethyl-tert-butyl ether	ug/L	ND	ND		30	
Ethylbenzene	ug/L	ND	ND		30	
m&p-Xylene	ug/L	ND	ND		30	
Methyl-tert-butyl ether	ug/L	ND	ND		30	
Naphthalene	ug/L	ND	ND		30	
o-Xylene	ug/L	ND	ND		30	
tert-Amyl Alcohol	ug/L	ND	ND		30	

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### QUALITY CONTROL DATA

Project STEADY SIMMONS 18856/56571

Pace Project No 92391949

SAMPLE DUPLICATE 2328930

Parameter	Units	92391822033 Result	Dup Result	RPD	Max RPD	Qualifiers
tert-Amyl methyl ether	ug/L	ND	ND		30	
tert-Butyl Alcohol	ug/L	ND	ND		30	
tert-Butyl Formate	ug/L	ND	ND		30	
Toluene	ug/L	ND	ND		30	
Xylene (Total)	ug/L	ND	ND		30	
1,2-Dichloroethane-d4 (S)	%	91	98	8		
4-Bromofluorobenzene (S)	%	94	96	2		
Toluene-d8 (S)	%	101	103	2		

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**QUALITY CONTROL DATA**

Project STEADY SIMMONS 18856/56571  
 Pace Project No 92391949

QC Batch: 420344 Analysis Method EPA 8260B  
 QC Batch Method EPA 8260B Analysis Description 8260 MSV Low Level SC  
 Associated Lab Samples 92391949031

METHOD BLANK 2328870 Matrix Water  
 Associated Lab Samples: 92391949031

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	1.0	0.24	07/20/18 16:05	
3,3-Dimethyl-1-Butanol	ug/L	ND	100	50.0	07/20/18 16:05	
Benzene	ug/L	ND	1.0	0.25	07/20/18 16:05	
Diisopropyl ether	ug/L	ND	1.0	0.12	07/20/18 16:05	
Ethanol	ug/L	ND	200	131	07/20/18 16:05	
Ethyl-tert-butyl ether	ug/L	ND	10.0	0.070	07/20/18 16:05	
Ethylbenzene	ug/L	ND	1.0	0.30	07/20/18 16:05	
m&p-Xylene	ug/L	ND	2.0	0.66	07/20/18 16:05	
Methyl-tert-butyl ether	ug/L	ND	1.0	0.21	07/20/18 16:05	
Naphthalene	ug/L	ND	1.0	0.24	07/20/18 16:05	
o-Xylene	ug/L	ND	1.0	0.23	07/20/18 16:05	
tert-Amyl Alcohol	ug/L	ND	100	50.0	07/20/18 16:05	
tert-Amylmethyl ether	ug/L	ND	10.0	0.10	07/20/18 16:05	
tert-Butyl Alcohol	ug/L	ND	100	3.6	07/20/18 16:05	
tert-Butyl Formate	ug/L	ND	50.0	1.9	07/20/18 16:05	
Toluene	ug/L	ND	1.0	0.26	07/20/18 16:05	
Xylene (Total)	ug/L	ND	1.0	1.0	07/20/18 16:05	
1,2-Dichloroethane-d4 (S)	%	100	70-130		07/20/18 16:05	
4-Bromofluorobenzene (S)	%	96	70-130		07/20/18 16:05	
Toluene-d8 (S)	%	102	70-130		07/20/18 16:05	

LABORATORY CONTROL SAMPLE: 2328871

Parameter	Units	Spike Conc	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	50	39.4	79	70-130	
3,3-Dimethyl-1-Butanol	ug/L	1000	977	98	70-130	
Benzene	ug/L	50	45.0	90	70-130	
Diisopropyl ether	ug/L	50	43.9	88	70-130	
Ethanol	ug/L	2000	1710	86	70-130	
Ethyl-tert-butyl ether	ug/L	100	86.7	87	70-130	
Ethylbenzene	ug/L	50	48.1	96	70-130	
m&p-Xylene	ug/L	100	96.9	97	70-130	
Methyl-tert-butyl ether	ug/L	50	45.6	91	70-130	
Naphthalene	ug/L	50	48.8	98	70-130	
o-Xylene	ug/L	50	47.4	95	70-130	
tert-Amyl Alcohol	ug/L	1000	873	87	70-130	
tert-Amylmethyl ether	ug/L	100	90.3	90	70-130	
tert-Butyl Alcohol	ug/L	500	437	87	70-130	
tert-Butyl Formate	ug/L	400	395	99	70-130	
Toluene	ug/L	50	47.5	95	70-130	

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### QUALITY CONTROL DATA

Project: STEADY SIMMONS 18856/56571  
Pace Project No: 92391949

LABORATORY CONTROL SAMPLE: 2328871

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Xylene (Total)	ug/L	150	144	96	70-130	
1,2-Dichloroethane-d4 (S)	%			93	70-130	
4-Bromofluorobenzene (S)	%			101	70-130	
Toluene-d8 (S)	%			101	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE 2328872 2328873

Parameter	Units	MS		MSD		MS		MSD		% Rec Limits	Max		Qual
		92391822030 Result	Spike Conc.	Spike Conc.	MS Result	MSD Result	% Rec	% Rec	RPD		RPD		
1,2-Dichloroethane	ug/L	ND	250	250	234	229	94	92	70-130	2	30		
3,3-Dimethyl-1-Butanol	ug/L	ND	5000	5000	4530	4770	91	95	70-130	5	30		
Benzene	ug/L	ND	250	250	263	275	105	110	70-130	4	30		
Diisopropyl ether	ug/L	124	250	250	374	358	100	94	70-130	4	30		
Ethanol	ug/L	ND	10000	10000	9290	9790	93	98	70-130	5	30		
Ethyl-tert-butyl ether	ug/L	ND	500	500	497	475	99	95	70-130	4	30		
Ethylbenzene	ug/L	ND	250	250	262	261	105	104	70-130	0	30		
m&p-Xylene	ug/L	ND	500	500	524	520	105	104	70-130	1	30		
Methyl-tert-butyl ether	ug/L	1980	250	250	2170	2090	76	47	70-130	3	30 M1		
Naphthalene	ug/L	4 2J	250	250	231	239	91	94	70-130	3	30		
o-Xylene	ug/L	ND	250	250	258	255	103	102	70-130	1	30		
tert-Amyl Alcohol	ug/L	ND	5000	5000	4820	5180	96	104	70-130	7	30		
tert-Amylmethyl ether	ug/L	ND	500	500	530	545	106	109	70-130	3	30		
tert-Butyl Alcohol	ug/L	179J	2500	2500	2820	2810	106	105	70-130	0	30		
tert-Butyl Formate	ug/L	ND	2000	2000	1570	1490	78	75	70-130	5	30		
Toluene	ug/L	ND	250	250	260	260	104	104	70-130	0	30		
Xylene (Total)	ug/L	ND	750	750	782	775	104	103	70-130	1	30		
1,2-Dichloroethane-d4 (S)	%						95	92	70-130				
4-Bromofluorobenzene (S)	%						96	98	70-130				
Toluene-d8 (S)	%						101	102	70-130				

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**QUALITY CONTROL DATA**

Project: STEADY SIMMONS 18856/56571  
 Pace Project No: 92391949

QC Batch: 419850 Analysis Method: EPA 8260B  
 QC Batch Method: EPA 8260B Analysis Description: 8260 MSV SC  
 Associated Lab Samples: 92391949001, 92391949003, 92391949004, 92391949005, 92391949006, 92391949007, 92391949008, 92391949009, 92391949010

METHOD BLANK: 2326676 Matrix: Water  
 Associated Lab Samples: 92391949001, 92391949003, 92391949004, 92391949005, 92391949006, 92391949007, 92391949008, 92391949009, 92391949010

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	5.0	1.8	07/19/18 01:13	
3,3-Dimethyl-1-Butanol	ug/L	ND	100	32.1	07/19/18 01:13	
Benzene	ug/L	ND	5.0	1.7	07/19/18 01:13	
Disopropyl ether	ug/L	ND	5.0	1.7	07/19/18 01:13	
Ethanol	ug/L	ND	200	131	07/19/18 01:13	
Ethyl-tert-butyl ether	ug/L	ND	10.0	3.6	07/19/18 01:13	
Ethylbenzene	ug/L	ND	5.0	1.6	07/19/18 01:13	
m&p-Xylene	ug/L	ND	10.0	3.1	07/19/18 01:13	
Methyl-tert-butyl ether	ug/L	ND	5.0	1.7	07/19/18 01:13	
Naphthalene	ug/L	ND	5.0	2.0	07/19/18 01:13	
o-Xylene	ug/L	ND	5.0	1.6	07/19/18 01:13	
tert-Amyl Alcohol	ug/L	ND	100	76.8	07/19/18 01:13	
tert-Amylmethyl ether	ug/L	ND	10.0	3.4	07/19/18 01:13	
tert-Butyl Alcohol	ug/L	ND	100	57.7	07/19/18 01:13	
tert-Butyl Formate	ug/L	ND	50.0	7.3	07/19/18 01:13	
Toluene	ug/L	ND	5.0	1.6	07/19/18 01:13	
Xylene (Total)	ug/L	ND	5.0	5.0	07/19/18 01:13	
1,2-Dichloroethane-d4 (S)	%	101	70-130		07/19/18 01:13	
4-Bromofluorobenzene (S)	%	99	70-130		07/19/18 01:13	
Toluene-d8 (S)	%	102	70-130		07/19/18 01:13	

LABORATORY CONTROL SAMPLE: 2326677

Parameter	Units	Spike Conc	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	50	42.9	86	70-130	
3,3-Dimethyl-1-Butanol	ug/L	1000	1020	102	70-130 1g	
Benzene	ug/L	50	45.0	90	70-130	
Disopropyl ether	ug/L	50	46.3	93	70-130	
Ethanol	ug/L	2000	1820	91	70-130	
Ethyl-tert-butyl ether	ug/L	100	91.3	91	70-130	
Ethylbenzene	ug/L	50	43.6	87	70-130	
m&p-Xylene	ug/L	100	89.0	89	70-130	
Methyl-tert-butyl ether	ug/L	50	46.9	94	70-130	
Naphthalene	ug/L	50	46.0	92	70-130	
o-Xylene	ug/L	50	45.4	91	70-130	
tert-Amyl Alcohol	ug/L	1000	1020	102	70-130	
tert-Amylmethyl ether	ug/L	100	93.1	93	70-130	
tert-Butyl Alcohol	ug/L	500	491	98	70-130	

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**QUALITY CONTROL DATA**

Project STEADY SIMMONS 18856/56571  
 Pace Project No . 92391949

LABORATORY CONTROL SAMPLE: 2326677

Parameter	Units	Spike Conc	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
tert-Butyl Formate	ug/L	400	399	100	70-130	
Toluene	ug/L	50	42.2	84	70-130	
Xylene (Total)	ug/L	150	134	90	70-130	
1,2-Dichloroethane-d4 (S)	%			106	70-130	
4-Bromofluorobenzene (S)	%			100	70-130	
Toluene-d8 (S)	%			99	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE 2327589 2327590

Parameter	Units	92391949009		MS		MSD		MS		MSD		% Rec	Limits	RPD	Max RPD	Qual
		Result	Conc	Spike Conc	Conc	Result	Result	% Rec	% Rec							
1,2-Dichloroethane	ug/L	ND	20	20	21.0	19.4	105	97	70-130	8	30					
3,3-Dimethyl-1-Butanol	ug/L	ND	400	400	419	395	105	99	70-130	6	30					
Benzene	ug/L	ND	20	20	23.0	21.3	115	106	70-130	8	30					
Diisopropyl ether	ug/L	ND	20	20	21.1	19.7	105	98	70-130	7	30					
Ethanol	ug/L	ND	800	800	812	788	102	98	70-130	3	30					
Ethyl-tert-butyl ether	ug/L	ND	40	40	41.6	38.1	104	95	70-130	9	30					
Ethylbenzene	ug/L	ND	20	20	21.7	20.8	109	104	70-130	4	30					
m&p-Xylene	ug/L	ND	40	40	43.9	41.8	110	104	70-130	5	30					
Methyl-tert-butyl ether	ug/L	ND	20	20	21.0	19.5	105	98	70-130	7	30					
Naphthalene	ug/L	ND	20	20	20.6	19.4	103	97	70-130	6	30					
o-Xylene	ug/L	ND	20	20	22.0	20.8	110	104	70-130	6	30					
tert-Amyl Alcohol	ug/L	ND	400	400	432	408	108	102	70-130	6	30					
tert-Amylmethyl ether	ug/L	ND	40	40	43.9	40.2	110	101	70-130	9	30					
tert-Butyl Alcohol	ug/L	ND	200	200	301	288	150	144	70-130	4	30	M1				
tert-Butyl Formate	ug/L	ND	160	160	13.3J	ND	8	4	70-130		30	P5				
Toluene	ug/L	ND	20	20	21.7	19.9	109	99	70-130	9	30					
Xylene (Total)	ug/L	ND	60	60	65.9	62.6	110	104	70-130	5	30					
1,2-Dichloroethane-d4 (S)	%							99	101	70-130						
4-Bromofluorobenzene (S)	%							101	101	70-130						
Toluene-d8 (S)	%							100	99	70-130						

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### QUALITY CONTROL DATA

Project STEADY SIMMONS 18856/56571  
Pace Project No 92391949

QC Batch	420045	Analysis Method	EPA 8260B
QC Batch Method	EPA 8260B	Analysis Description	8260 MSV SC
Associated Lab Samples	92391949002, 92391949011, 92391949012, 92391949013, 92391949014, 92391949015, 92391949016, 92391949017		

METHOD BLANK 2327549 Matrix Water  
Associated Lab Samples 92391949002, 92391949011, 92391949012, 92391949013, 92391949014, 92391949015, 92391949016, 92391949017

Parameter	Units	Blank	Reporting	MDL	Analyzed	Qualifiers
		Result	Limit			
1,2-Dichloroethane	ug/L	ND	5.0	1.8	07/19/18 13:40	
3,3-Dimethyl-1-Butanol	ug/L	ND	100	32.1	07/19/18 13:40	
Benzene	ug/L	ND	5.0	1.7	07/19/18 13:40	
Diisopropyl ether	ug/L	ND	5.0	1.7	07/19/18 13:40	
Ethanol	ug/L	ND	200	131	07/19/18 13:40	
Ethyl-tert-butyl ether	ug/L	ND	10.0	3.6	07/19/18 13:40	
Ethylbenzene	ug/L	ND	5.0	1.6	07/19/18 13:40	
m&p-Xylene	ug/L	ND	10.0	3.1	07/19/18 13:40	
Methyl-tert-butyl ether	ug/L	ND	5.0	1.7	07/19/18 13:40	
Naphthalene	ug/L	ND	5.0	2.0	07/19/18 13:40	
o-Xylene	ug/L	ND	5.0	1.6	07/19/18 13:40	
tert-Amyl Alcohol	ug/L	ND	100	76.8	07/19/18 13:40	
tert-Amylmethyl ether	ug/L	ND	10.0	3.4	07/19/18 13:40	
tert-Butyl Alcohol	ug/L	ND	100	57.7	07/19/18 13:40	
tert-Butyl Formate	ug/L	ND	50.0	7.3	07/19/18 13:40	
Toluene	ug/L	ND	5.0	1.6	07/19/18 13:40	
Xylene (Total)	ug/L	ND	5.0	5.0	07/19/18 13:40	
1,2-Dichloroethane-d4 (S)	%	100	70-130		07/19/18 13:40	
4-Bromofluorobenzene (S)	%	100	70-130		07/19/18 13:40	
Toluene-d8 (S)	%	102	70-130		07/19/18 13:40	

LABORATORY CONTROL SAMPLE 2327550

Parameter	Units	Spike	LCS	LCS	% Rec	Qualifiers
		Conc	Result	% Rec	Limits	
1,2-Dichloroethane	ug/L	50	41.0	82	70-130	
3,3-Dimethyl-1-Butanol	ug/L	1000	906	91	70-130 1g	
Benzene	ug/L	50	44.6	89	70-130	
Diisopropyl ether	ug/L	50	44.7	89	70-130	
Ethanol	ug/L	2000	1620	81	70-130	
Ethyl-tert-butyl ether	ug/L	100	88.1	88	70-130	
Ethylbenzene	ug/L	50	43.3	87	70-130	
m&p-Xylene	ug/L	100	87.9	88	70-130	
Methyl-tert-butyl ether	ug/L	50	46.5	93	70-130	
Naphthalene	ug/L	50	44.9	90	70-130	
o-Xylene	ug/L	50	45.0	90	70-130	
tert-Amyl Alcohol	ug/L	1000	919	92	70-130	
tert-Amylmethyl ether	ug/L	100	92.8	93	70-130	
tert-Butyl Alcohol	ug/L	500	427	85	70-130	

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**QUALITY CONTROL DATA**

Project STEADY SIMMONS 18856/56571  
 Pace Project No 92391949

LABORATORY CONTROL SAMPLE 2327550

Parameter	Units	Spike Conc	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
tert-Butyl Formate	ug/L	400	381	95	70-130	
Toluene	ug/L	50	42.3	85	70-130	
Xylene (Total)	ug/L	150	133	89	70-130	
1,2-Dichloroethane-d4 (S)	%			103	70-130	
4-Bromofluorobenzene (S)	%			101	70-130	
Toluene-d8 (S)	%			99	70-130	

MATRIX SPIKE SAMPLE 2328825

Parameter	Units	92391949013 Result	Spike Conc	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	ND	20	18.3	91	70-130	
3,3-Dimethyl-1-Butanol	ug/L	ND	400	351	88	70-130	
Benzene	ug/L	ND	20	20.3	102	70-130	
Diisopropyl ether	ug/L	ND	20	18.4	92	70-130	
Ethanol	ug/L	ND	800	762	95	70-130	
Ethyl-tert-butyl ether	ug/L	ND	40	36.4	91	70-130	
Ethylbenzene	ug/L	ND	20	19.7	99	70-130	
m&p-Xylene	ug/L	ND	40	39.5	99	70-130	
Methyl-tert-butyl ether	ug/L	ND	20	18.7	94	70-130	
Naphthalene	ug/L	ND	20	16.5	82	70-130	
o-Xylene	ug/L	ND	20	19.8	99	70-130	
tert-Amyl Alcohol	ug/L	ND	400	364	91	70-130	
tert-Amylmethyl ether	ug/L	ND	40	38.4	96	70-130	
tert-Butyl Alcohol	ug/L	ND	200	221	111	70-130	
tert-Butyl Formate	ug/L	ND	160	62.1	39	70-130 P5	
Toluene	ug/L	ND	20	19.0	95	70-130	
Xylene (Total)	ug/L	ND	60	59.2	99	70-130	
1,2-Dichloroethane-d4 (S)	%				97	70-130	
4-Bromofluorobenzene (S)	%				99	70-130	
Toluene-d8 (S)	%				99	70-130	

SAMPLE DUPLICATE 2328824

Parameter	Units	92391949012 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2-Dichloroethane	ug/L	ND	ND		30	
3,3-Dimethyl-1-Butanol	ug/L	ND	ND		30	
Benzene	ug/L	ND	ND		30	
Diisopropyl ether	ug/L	ND	ND		30	
Ethanol	ug/L	ND	ND		30	
Ethyl-tert-butyl ether	ug/L	ND	ND		30	
Ethylbenzene	ug/L	ND	ND		30	
m&p-Xylene	ug/L	ND	ND		30	
Methyl-tert-butyl ether	ug/L	ND	ND		30	
Naphthalene	ug/L	ND	ND		30	

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**QUALITY CONTROL DATA**

Project: STEADY SIMMONS 18856/56571  
Pace Project No. 92391949

SAMPLE DUPLICATE 2328824

Parameter	Units	92391949012 Result	Dup Result	RPD	Max RPD	Qualifiers
o-Xylene	ug/L	ND	ND		30	
tert-Amyl Alcohol	ug/L	ND	ND		30	
tert-Amylmethyl ether	ug/L	ND	ND		30	
tert-Butyl Alcohol	ug/L	ND	ND		30	
tert-Butyl Formate	ug/L	ND	ND		30	
Toluene	ug/L	ND	ND		30	
Xylene (Total)	ug/L	ND	ND		30	
1,2-Dichloroethane-d4 (S)	%	99	99	0		
4-Bromofluorobenzene (S)	%	99	99	0		
Toluene-d8 (S)	%	103	101	2		

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**REPORT OF LABORATORY ANALYSIS**

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**QUALITY CONTROL DATA**

Project STEADY SIMMONS 18856/56571  
 Pace Project No 92391949

QC Batch 420078 Analysis Method EPA 8260B  
 QC Batch Method EPA 8260B Analysis Description 8260 MSV SC  
 Associated Lab Samples 92391949018, 92391949019, 92391949020, 92391949021, 92391949022, 92391949023, 92391949024,  
 92391949025, 92391949026, 92391949028, 92391949029

METHOD BLANK 2327766 Matrx. Water  
 Associated Lab Samples 92391949018, 92391949019, 92391949020, 92391949021, 92391949022, 92391949023, 92391949024,  
 92391949025, 92391949026, 92391949028, 92391949029

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	5 0	1 8	07/20/18 01:47	
3,3-Dimethyl-1-Butanol	ug/L	ND	100	32 1	07/20/18 01:47	
Benzene	ug/L	ND	5 0	1 7	07/20/18 01:47	
Diisopropyl ether	ug/L	ND	5 0	1 7	07/20/18 01:47	
Ethanol	ug/L	ND	200	131	07/20/18 01:47	
Ethyl-tert-butyl ether	ug/L	ND	10 0	3 6	07/20/18 01:47	
Ethylbenzene	ug/L	ND	5.0	1 6	07/20/18 01:47	
m&p-Xylene	ug/L	ND	10.0	3.1	07/20/18 01:47	
Methyl-tert-butyl ether	ug/L	ND	5 0	1 7	07/20/18 01:47	
Naphthalene	ug/L	ND	5 0	2 0	07/20/18 01:47	
o-Xylene	ug/L	ND	5 0	1 6	07/20/18 01:47	
tert-Amyl Alcohol	ug/L	ND	100	76.8	07/20/18 01:47	
tert-Amylmethyl ether	ug/L	ND	10 0	3 4	07/20/18 01:47	
tert-Butyl Alcohol	ug/L	ND	100	57 7	07/20/18 01:47	
tert-Butyl Formate	ug/L	ND	50 0	7 3	07/20/18 01:47	
Toluene	ug/L	ND	5 0	1 6	07/20/18 01:47	
Xylene (Total)	ug/L	ND	5 0	5 0	07/20/18 01:47	
1,2-Dichloroethane-d4 (S)	%	100	70-130		07/20/18 01:47	
4-Bromofluorobenzene (S)	%	99	70-130		07/20/18 01:47	
Toluene-d8 (S)	%	102	70-130		07/20/18 01:47	

LABORATORY CONTROL SAMPLE 2327767

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	50	40.8	82	70-130	
3,3-Dimethyl-1-Butanol	ug/L	1000	1020	102	70-130	1g
Benzene	ug/L	50	44.8	90	70-130	
Diisopropyl ether	ug/L	50	44.7	89	70-130	
Ethanol	ug/L	2000	1810	90	70-130	
Ethyl-tert-butyl ether	ug/L	100	88 1	88	70-130	
Ethylbenzene	ug/L	50	43 2	86	70-130	
m&p-Xylene	ug/L	100	88.0	88	70-130	
Methyl-tert-butyl ether	ug/L	50	45 2	90	70-130	
Naphthalene	ug/L	50	44 9	90	70-130	
o-Xylene	ug/L	50	45 2	90	70-130	
tert-Amyl Alcohol	ug/L	1000	1020	102	70-130	
tert-Amylmethyl ether	ug/L	100	93 0	93	70-130	
tert-Butyl Alcohol	ug/L	500	482	96	70-130	

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### QUALITY CONTROL DATA

Project: STEADY SIMMONS 18856/56571  
Pace Project No. 92391949

LABORATORY CONTROL SAMPLE 2327767

Parameter	Units	Spike Conc	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
tert-Butyl Formate	ug/L	400	381	95	70-130	
Toluene	ug/L	50	42.9	86	70-130	
Xylene (Total)	ug/L	150	133	89	70-130	
1,2-Dichloroethane-d4 (S)	%			103	70-130	
4-Bromofluorobenzene (S)	%			100	70-130	
Toluene-d8 (S)	%			100	70-130	

MATRIX SPIKE SAMPLE 2327769

Parameter	Units	92391949019 Result	Spike Conc	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	ND	20	18.7	93	70-130	
3,3-Dimethyl-1-Butanol	ug/L	ND	400	377	94	70-130	
Benzene	ug/L	ND	20	20.6	103	70-130	
Diisopropyl ether	ug/L	ND	20	18.8	94	70-130	
Ethanol	ug/L	ND	800	822	103	70-130	
Ethyl-tert-butyl ether	ug/L	ND	40	36.5	91	70-130	
Ethylbenzene	ug/L	ND	20	19.7	98	70-130	
m&p-Xylene	ug/L	ND	40	39.9	100	70-130	
Methyl-tert-butyl ether	ug/L	ND	20	18.9	94	70-130	
Naphthalene	ug/L	ND	20	17.7	88	70-130	
o-Xylene	ug/L	ND	20	19.9	99	70-130	
tert-Amyl Alcohol	ug/L	ND	400	385	96	70-130	
tert-Amylmethyl ether	ug/L	ND	40	38.6	97	70-130	
tert-Butyl Alcohol	ug/L	ND	200	233	117	70-130	
tert-Butyl Formate	ug/L	ND	160	65.5	41	70-130 P5	
Toluene	ug/L	ND	20	19.3	97	70-130	
Xylene (Total)	ug/L	ND	60	59.8	100	70-130	
1,2-Dichloroethane-d4 (S)	%				99	70-130	
4-Bromofluorobenzene (S)	%				100	70-130	
Toluene-d8 (S)	%				100	70-130	

SAMPLE DUPLICATE 2327768

Parameter	Units	92391949018 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2-Dichloroethane	ug/L	ND	ND		30	
3,3-Dimethyl-1-Butanol	ug/L	ND	ND		30	
Benzene	ug/L	ND	ND		30	
Diisopropyl ether	ug/L	ND	ND		30	
Ethanol	ug/L	ND	ND		30	
Ethyl-tert-butyl ether	ug/L	ND	ND		30	
Ethylbenzene	ug/L	ND	ND		30	
m&p-Xylene	ug/L	ND	ND		30	
Methyl-tert-butyl ether	ug/L	ND	ND		30	
Naphthalene	ug/L	ND	ND		30	

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**QUALITY CONTROL DATA**

Project STEADY SIMMONS 18856/56571

Pace Project No.: 92391949

SAMPLE DUPLICATE 2327768

Parameter	Units	92391949018 Result	Dup Result	RPD	Max RPD	Qualifiers
o-Xylene	ug/L	ND	ND		30	
tert-Amyl Alcohol	ug/L	ND	ND		30	
tert-Amylmethyl ether	ug/L	ND	ND		30	
tert-Butyl Alcohol	ug/L	ND	ND		30	
tert-Butyl Formate	ug/L	ND	ND		30	
Toluene	ug/L	ND	ND		30	
Xylene (Total)	ug/L	ND	ND		30	
1,2-Dichloroethane-d4 (S)	%	102	98	4		
4-Bromofluorobenzene (S)	%	100	98	2		
Toluene-d8 (S)	%	101	99	2		

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**QUALITY CONTROL DATA**

Project STEADY SIMMONS 18856/56571  
 Pace Project No.: 92391949

QC Batch 420395 Analysis Method: EPA 8260B  
 QC Batch Method: EPA 8260B Analysis Description: 8260 MSV SC  
 Associated Lab Samples: 92391949027

METHOD BLANK 2329253 Matrix Water  
 Associated Lab Samples 92391949027

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	5.0	1.8	07/20/18 22:31	
3,3-Dimethyl-1-Butanol	ug/L	ND	100	32.1	07/20/18 22:31	
Benzene	ug/L	ND	5.0	1.7	07/20/18 22:31	
Diisopropyl ether	ug/L	ND	5.0	1.7	07/20/18 22:31	
Ethanol	ug/L	ND	200	131	07/20/18 22:31	
Ethyl-tert-butyl ether	ug/L	ND	10.0	3.6	07/20/18 22:31	
Ethylbenzene	ug/L	ND	5.0	1.6	07/20/18 22:31	
m&p-Xylene	ug/L	ND	10.0	3.1	07/20/18 22:31	
Methyl-tert-butyl ether	ug/L	ND	5.0	1.7	07/20/18 22:31	
Naphthalene	ug/L	ND	5.0	2.0	07/20/18 22:31	
o-Xylene	ug/L	ND	5.0	1.6	07/20/18 22:31	
tert-Amyl Alcohol	ug/L	ND	100	76.8	07/20/18 22:31	
tert-Amylmethyl ether	ug/L	ND	10.0	3.4	07/20/18 22:31	
tert-Butyl Alcohol	ug/L	ND	100	57.7	07/20/18 22:31	
tert-Butyl Formate	ug/L	ND	50.0	7.3	07/20/18 22:31	
Toluene	ug/L	ND	5.0	1.6	07/20/18 22:31	
Xylene (Total)	ug/L	ND	5.0	5.0	07/20/18 22:31	
1,2-Dichloroethane-d4 (S)	%	98	70-130		07/20/18 22:31	
4-Bromofluorobenzene (S)	%	106	70-130		07/20/18 22:31	
Toluene-d8 (S)	%	113	70-130		07/20/18 22:31	

LABORATORY CONTROL SAMPLE 2329254

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	50	46.4	93	70-130	
3,3-Dimethyl-1-Butanol	ug/L	1000	918	92	70-130	
Benzene	ug/L	50	48.2	96	70-130	
Diisopropyl ether	ug/L	50	50.4	101	70-130	
Ethanol	ug/L	2000	1740	87	70-130	
Ethyl-tert-butyl ether	ug/L	100	95.4	95	70-130	
Ethylbenzene	ug/L	50	44.0	88	70-130	
m&p-Xylene	ug/L	100	88.8	89	70-130	
Methyl-tert-butyl ether	ug/L	50	47.4	95	70-130	
Naphthalene	ug/L	50	49.1	98	70-130	
o-Xylene	ug/L	50	45.8	92	70-130	
tert-Amyl Alcohol	ug/L	1000	952	95	70-130	
tert-Amylmethyl ether	ug/L	100	99.0	99	70-130	
tert-Butyl Alcohol	ug/L	500	421	84	70-130 1g	
tert-Butyl Formate	ug/L	400	415	104	70-130	
Toluene	ug/L	50	44.4	89	70-130	

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**QUALITY CONTROL DATA**

Project: STEADY SIMMONS 18856/56571  
 Pace Project No. 92391949

LABORATORY CONTROL SAMPLE 2329254

Parameter	Units	Spike Conc	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Xylene (Total)	ug/L	150	135	90	70-130	
1,2-Dichloroethane-d4 (S)	%			102	70-130	
4-Bromofluorobenzene (S)	%			96	70-130	
Toluene-d8 (S)	%			98	70-130	

MATRIX SPIKE SAMPLE. 2330242

Parameter	Units	92392459028 Result	Spike Conc	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	ND	20	16.5	83	70-130	
3,3-Dimethyl-1-Butanol	ug/L	ND	400	221	55	70-130	M1
Benzene	ug/L	ND	20	16.8	84	70-130	
Diisopropyl ether	ug/L	ND	20	16.1	81	70-130	
Ethanol	ug/L	ND	800	669	84	70-130	
Ethyl-tert-butyl ether	ug/L	ND	40	30.4	76	70-130	
Ethylbenzene	ug/L	ND	20	15.0	75	70-130	
m&p-Xylene	ug/L	ND	40	30.8	77	70-130	
Methyl-tert-butyl ether	ug/L	ND	20	15.4	77	70-130	
Naphthalene	ug/L	ND	20	14.0	70	70-130	
o-Xylene	ug/L	ND	20	15.0	75	70-130	
tert-Amyl Alcohol	ug/L	ND	400	289	72	70-130	
tert-Amylmethyl ether	ug/L	ND	40	29.4	73	70-130	
tert-Butyl Alcohol	ug/L	ND	200	194	97	70-130	
tert-Butyl Formate	ug/L	ND	160	14.0J	9	70-130	P5
Toluene	ug/L	ND	20	15.0	75	70-130	
Xylene (Total)	ug/L	ND	60	45.9	76	70-130	
1,2-Dichloroethane-d4 (S)	%				104	70-130	
4-Bromofluorobenzene (S)	%				101	70-130	
Toluene-d8 (S)	%				99	70-130	

SAMPLE DUPLICATE. 2330241

Parameter	Units	92392459027 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2-Dichloroethane	ug/L	ND	ND		30	
3,3-Dimethyl-1-Butanol	ug/L	ND	ND		30	
Benzene	ug/L	ND	ND		30	
Diisopropyl ether	ug/L	ND	ND		30	
Ethanol	ug/L	ND	ND		30	
Ethyl-tert-butyl ether	ug/L	ND	ND		30	
Ethylbenzene	ug/L	ND	ND		30	
m&p-Xylene	ug/L	ND	ND		30	
Methyl-tert-butyl ether	ug/L	ND	ND		30	
Naphthalene	ug/L	ND	ND		30	
o-Xylene	ug/L	ND	ND		30	
tert-Amyl Alcohol	ug/L	ND	ND		30	

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### QUALITY CONTROL DATA

Project: STEADY SIMMONS 18856/56571  
Pace Project No 92391949

SAMPLE DUPLICATE 2330241

Parameter	Units	92392459027 Result	Dup Result	RPD	Max RPD	Qualifiers
tert-Amyimethyl ether	ug/L	ND	ND		30	
tert-Butyl Alcohol	ug/L	ND	ND		30	
tert-Butyl Formate	ug/L	ND	ND		30	
Toluene	ug/L	ND	ND		30	
Xylene (Total)	ug/L	ND	ND		30	
1,2-Dichloroethane-d4 (S)	%	102	108	6		
4-Bromofluorobenzene (S)	%	105	102	3		
Toluene-d8 (S)	%	111	106	5		

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**QUALITY CONTROL DATA**

Project STEADY SIMMONS 18856/56571  
Pace Project No 92391949

QC Batch: 419697 Analysis Method: EPA 8011  
QC Batch Method: EPA 8011 Analysis Description: GCS 8011 EDB DBCP  
Associated Lab Samples 92391949001, 92391949002, 92391949003, 92391949004, 92391949005, 92391949006, 92391949007, 92391949008, 92391949009, 92391949010, 92391949011, 92391949012, 92391949013, 92391949014, 92391949015

METHOD BLANK 2325816 Matrix: Water  
Associated Lab Samples: 92391949001, 92391949002, 92391949003, 92391949004, 92391949005, 92391949006, 92391949007, 92391949008, 92391949009, 92391949010, 92391949011, 92391949012, 92391949013, 92391949014, 92391949015

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	0.020	0.020	07/18/18 17:07	
1-Chloro-2-bromopropane (S)	%	112	60-140		07/18/18 17:07	

LABORATORY CONTROL SAMPLE & LCSD: 2325817 2325818

Parameter	Units	Spike Conc	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	.25	0.25	0.26	102	104	60-140	2	20	
1-Chloro-2-bromopropane (S)	%				107	108	60-140			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE 2325819 2325820

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92391949007 Result	Spike Conc	Spike Conc	Result						
1,2-Dibromoethane (EDB)	ug/L	ND	.24	.24	0.25	0.25	103	103	60-140	1	20
1-Chloro-2-bromopropane (S)	%						106	107	60-140		

SAMPLE DUPLICATE 2325821

Parameter	Units	92391949010 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	ND		20	
1-Chloro-2-bromopropane (S)	%	97	109	12		

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**QUALITY CONTROL DATA**

Project: STEADY SIMMONS 18856/56571  
 Pace Project No 92391949

QC Batch: 419698 Analysis Method: EPA 8011  
 QC Batch Method: EPA 8011 Analysis Description: GCS 8011 EDB DBCP  
 Associated Lab Samples: 92391949016, 92391949017, 92391949018, 92391949019, 92391949020, 92391949021, 92391949022, 92391949023, 92391949024, 92391949025, 92391949026, 92391949027, 92391949028, 92391949030, 92391949031

METHOD BLANK: 2325822 Matrix: Water  
 Associated Lab Samples: 92391949016, 92391949017, 92391949018, 92391949019, 92391949020, 92391949021, 92391949022, 92391949023, 92391949024, 92391949025, 92391949026, 92391949027, 92391949028, 92391949030, 92391949031

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	0.020	0.020	07/19/18 21 40	
1-Chloro-2-bromopropane (S)	%	122	60-140		07/19/18 21 40	

LABORATORY CONTROL SAMPLE & LCSD: 2325823 2325824

Parameter	Units	Spike Conc	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	26	0.26	0.28	101	111	60-140	7	20	
1-Chloro-2-bromopropane (S)	%				106	116	60-140			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE 2325825 2325826

Parameter	Units	92391949018 Result	MS Spike Conc	MSD Spike Conc	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dibromoethane (EDB)	ug/L	ND	.24	.24	0.25	0.25	101	101	60-140	0	20	
1-Chloro-2-bromopropane (S)	%						105	106	60-140			

SAMPLE DUPLICATE 2325827

Parameter	Units	92391949019 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	ND		20	
1-Chloro-2-bromopropane (S)	%	112	99	13		

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## QUALIFIERS

Project: STEADY SIMMONS 18856/56571  
Pace Project No 92391949

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### DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270 The result reported for each analyte is a combined concentration

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute

### LABORATORIES

PASI-C Pace Analytical Services - Charlotte

### ANALYTE QUALIFIERS

1g	Initial calibration evaluation met acceptance criteria. Compound did not meet additional accuracy assessment for percent error
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery
P5	The EPA or method required sample preservation degrades this compound, therefore acceptable recoveries may not be achieved in sample matrix spikes
S5	Surrogate recovery outside control limits due to matrix interferences (not confirmed by re-analysis)

## REPORT OF LABORATORY ANALYSIS

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**QUALITY CONTROL DATA CROSS REFERENCE TABLE**

Project STEADY SIMMONS 18856/56571  
 Pace Project No 92391949

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92391949001	MW-1R	EPA 8011	419697	EPA 8011	419806
92391949002	MW-2	EPA 8011	419697	EPA 8011	419806
92391949003	MW-3	EPA 8011	419697	EPA 8011	419806
92391949004	MW-4	EPA 8011	419697	EPA 8011	419806
92391949005	MW-5	EPA 8011	419697	EPA 8011	419806
92391949006	MW-6	EPA 8011	419697	EPA 8011	419806
92391949007	MW-7	EPA 8011	419697	EPA 8011	419806
92391949008	MW-8	EPA 8011	419697	EPA 8011	419806
92391949009	MW-9	EPA 8011	419697	EPA 8011	419806
92391949010	MW-10	EPA 8011	419697	EPA 8011	419806
92391949011	MW-11	EPA 8011	419697	EPA 8011	419806
92391949012	MW-12	EPA 8011	419697	EPA 8011	419806
92391949013	MW-13	EPA 8011	419697	EPA 8011	419806
92391949014	MW-14	EPA 8011	419697	EPA 8011	419806
92391949015	MW-15	EPA 8011	419697	EPA 8011	419806
92391949016	MW-16	EPA 8011	419698	EPA 8011	419800
92391949017	MW-17	EPA 8011	419698	EPA 8011	419800
92391949018	DW-1	EPA 8011	419698	EPA 8011	419800
92391949019	DW-2	EPA 8011	419698	EPA 8011	419800
92391949020	DW-3	EPA 8011	419698	EPA 8011	419800
92391949021	DW-4	EPA 8011	419698	EPA 8011	419800
92391949022	DW-5	EPA 8011	419698	EPA 8011	419800
92391949023	DW-6	EPA 8011	419698	EPA 8011	419800
92391949024	DW-7	EPA 8011	419698	EPA 8011	419800
92391949025	DW-8	EPA 8011	419698	EPA 8011	419800
92391949026	DUP-1	EPA 8011	419698	EPA 8011	419800
92391949027	DUP-2	EPA 8011	419698	EPA 8011	419800
92391949028	FB	EPA 8011	419698	EPA 8011	419800
92391949030	SW-1	EPA 8011	419698	EPA 8011	419800
92391949031	SW-2	EPA 8011	419698	EPA 8011	419800
92391949030	SW-1	EPA 8260B	419803		
92391949031	SW-2	EPA 8260B	420344		
92391949001	MW-1R	EPA 8260B	419850		
92391949002	MW-2	EPA 8260B	420045		
92391949003	MW-3	EPA 8260B	419850		
92391949004	MW-4	EPA 8260B	419850		
92391949005	MW-5	EPA 8260B	419850		
92391949006	MW-6	EPA 8260B	419850		
92391949007	MW-7	EPA 8260B	419850		
92391949008	MW-8	EPA 8260B	419850		
92391949009	MW-9	EPA 8260B	419850		
92391949010	MW-10	EPA 8260B	419850		
92391949011	MW-11	EPA 8260B	420045		
92391949012	MW-12	EPA 8260B	420045		
92391949013	MW-13	EPA 8260B	420045		

**REPORT OF LABORATORY ANALYSIS**

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**QUALITY CONTROL DATA CROSS REFERENCE TABLE**

Project: STEADY SIMMONS 18856/56571  
Pace Project No : 92391949

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92391949014	MW-14	EPA 8260B	420045		
92391949015	MW-15	EPA 8260B	420045		
92391949016	MW-16	EPA 8260B	420045		
92391949017	MW-17	EPA 8260B	420045		
92391949018	DW-1	EPA 8260B	420078		
92391949019	DW-2	EPA 8260B	420078		
92391949020	DW-3	EPA 8260B	420078		
92391949021	DW-4	EPA 8260B	420078		
92391949022	DW-5	EPA 8260B	420078		
92391949023	DW-6	EPA 8260B	420078		
92391949024	DW-7	EPA 8260B	420078		
92391949025	DW-8	EPA 8260B	420078		
92391949026	DUP-1	EPA 8260B	420078		
92391949027	DUP-2	EPA 8260B	420395		
92391949028	FB	EPA 8260B	420078		
92391949029	TB	EPA 8260B	420078		

**REPORT OF LABORATORY ANALYSIS**

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	Document Name: Sample Condition Upon Receipt (SCUR)	Document Revised: February 7, 2018 Page 1 of 2
	Document No.: F-CAR-CS-038-Rev.06	Issuing Authority: Pace Carolinas Quality Office

Laboratory receiving samples:  
 Asheville  Eden  Greenwood  Huntersville  Raleigh  Mechanicsville

Client Name: SCDHEC  
 Project #: WO#: 92391949  
 Courier:  Fed Ex  UPS  USPS  Client  
 Commercial  Pace  Other: \_\_\_\_\_



Custody Seal Present?  Yes  No Seals Intact?  Yes  No  
 Date/Initials Person Examining Contents: BV 7/15/18

Packing Material:  Bubble Wrap  Bubble Bags  None  Other  
 Thermometer:  IR Gun ID: 921040 Type of Ice:  Wet  Blue  None  
 Cooler Temp (°C): -1.4 Correction Factor: Add/Subtract (°C) +0.4 Temp should be above freezing to 6°C  
 Cooler Temp Corrected (°C): 4.0  Samples out of temp criteria. Samples on ice, cooling process has begun

USDA Regulated Soil:  N/A, water sample  
 Did samples originate in a quarantine zone within the United States: CA, HI, or SC (check map)?  Yes  No  
 Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)?  Yes  No

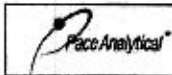
	Yes	No	N/A	Comments/Discrepancy:
Chain of Custody Present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1.
Samples Arrived within Hold Time?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	2.
Short Hold Time Analysis (<72 hr.?)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	3.
Rush Turn Around Time Requested?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	4.
Sufficient Volume?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	5.
Correct Containers Used? -Pace Containers Used?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	6.
Containers Intact?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	7.
Dissolved analysis: Samples Filtered?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	8.
Sample Labels Match COC?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	9. No time/date on vials - lab says 3 vials for TB, but only received 2 vials. BV 7/13/18
-Includes Date/Time/ID/Analysis Matrix: <u>KT</u>				
Headspace in VOA Vials (>5-6mm)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	10.
Trip Blank Present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	11.
Trip Blank Custody Seals Present?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

COMMENTS/SAMPLE DISCREPANCY \_\_\_\_\_  
 Field Data Requested?  Yes  No  
 Lot ID of split containers: \_\_\_\_\_

CLIENT NOTIFICATION/RESOLUTION \_\_\_\_\_

Person contacted: \_\_\_\_\_ Date/Time: \_\_\_\_\_  
 Project Manager SCURF Review: TC Date: 7/16/18  
 Project Manager SRF Review: TC Date: 7/16/18





Document Name: Sample Condition Upon Receipt (SCUR)  
 Document No.: F-CAR-CS-033-Rev.06  
 Document Revised: February 7, 2018  
 Page 1 of 2  
 Issuing Authority: Pace Carolinas Quality Office

\*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.

Exception: VOA, Coliform, TOC, Oil and Grease, ORQ/8015 (water) DOC, LUG  
 \*\*Bottom half of box is list number of bottle

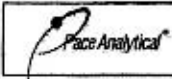
Project # **W0# : 92391949**  
 PR: RMC Due Date: 07/20/18  
 CLIENT: 82-SCDHEC

PG1

Item #	Material	1	2	3	4	5	6	7	8	9	10	11	12
	BP4U-125 mL Plastic Unpreserved (N/A) (C-1)	/	/	/	/	/	/	/	/	/	/	/	/
	BP2U-250 mL Plastic Unpreserved (N/A)	/	/	/	/	/	/	/	/	/	/	/	/
	BP2U-500 mL Plastic Unpreserved (N/A)	/	/	/	/	/	/	/	/	/	/	/	/
	BP2U-1 Near Plastic Unpreserved (N/A)	/	/	/	/	/	/	/	/	/	/	/	/
	BP4S-125 mL Plastic H2SO4 [pH < 2] (C-1)	/	/	/	/	/	/	/	/	/	/	/	/
	BP2K-250 mL Plastic HNO3 [pH < 2]	/	/	/	/	/	/	/	/	/	/	/	/
	BP4C-125 mL Plastic 2M Acetone & HClO [pH > 12] (C-1)	/	/	/	/	/	/	/	/	/	/	/	/
	WQDU-Wide-mouthed Glass Jar Unpreserved	/	/	/	/	/	/	/	/	/	/	/	/
	AD2B-1 liter Amber Unpreserved (N/A) (C-1)	/	/	/	/	/	/	/	/	/	/	/	/
	AD2H-1 liter Amber HCl [pH < 2]	/	/	/	/	/	/	/	/	/	/	/	/
	AD2U-250 mL Amber Unpreserved (N/A) (C-1)	/	/	/	/	/	/	/	/	/	/	/	/
	AD2S-1 liter Amber H2SO4 [pH < 2]	/	/	/	/	/	/	/	/	/	/	/	/
	AD2K-250 mL Amber HNO3 [pH < 2]	/	/	/	/	/	/	/	/	/	/	/	/
	AD2A(1000A)-500 mL Amber HClO (N/A)(C-1)	/	/	/	/	/	/	/	/	/	/	/	/
	DB2H-40 mL VOA HCl (N/A)	/	/	/	/	/	/	/	/	/	/	/	/
	VE2F-40 mL VOA H2SO4 (N/A)	/	/	/	/	/	/	/	/	/	/	/	/
	VE2U-40 mL VOA Imp (N/A)	/	/	/	/	/	/	/	/	/	/	/	/
	EC2P-40 mL VOA H2O2 (N/A)	/	/	/	/	/	/	/	/	/	/	/	/
	V0404 80 mL per 100-5035 (N/A)	/	/	/	/	/	/	/	/	/	/	/	/
	V104 (3 walls per 100-1111)(N/A)	/	/	/	/	/	/	/	/	/	/	/	/
	SP2T-125 mL Sterile Plastic (N/A - 10)	/	/	/	/	/	/	/	/	/	/	/	/
	SP2T-250 mL Sterile Plastic (N/A - 10)	/	/	/	/	/	/	/	/	/	/	/	/
	BP2A-250 mL Plastic (8102004 B-3-B-7)	/	/	/	/	/	/	/	/	/	/	/	/
	AD2A-250 mL Amber Unpreserved (N/A)	/	/	/	/	/	/	/	/	/	/	/	/
	V20U-20 mL Sorbent vial (N/A)	/	/	/	/	/	/	/	/	/	/	/	/
	DB2A-40 mL Amber Unpreserved vial (N/A)	/	/	/	/	/	/	/	/	/	/	/	/

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers).



Document Name: Sample Condition Upon Receipt (SCUR)	Document Revised: February 7, 2018 Page 1 of 2
Document No.: F-CAR-CS-033-Rev.06	Issuing Authority: Pace Cardinal Quality Office

\*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.

Exemptions: VOA, Coliform, TDC, Oil and Grease, DRG/8015 (water) DOC, LHG  
\*\*Bottom half of box is to list number of bottle

Project: **WO#: 92391949**  
PR: RNC Due Date: 07/20/18  
CLIENT: 92-SCDHEC

162

Resid	Sample Description	1	2	3	4	5	6	7	8	9	10	11	12
BPAU-125 ml Plastic Unpreserved (N/A) (C-)		/	/	/	/	/	/	/	/	/	/	/	/
BPAU-250 ml Plastic Unpreserved (N/A)		/	/	/	/	/	/	/	/	/	/	/	/
BPAU-500 ml Plastic Unpreserved (N/A)		/	/	/	/	/	/	/	/	/	/	/	/
BPAU-1 liter Plastic Unpreserved (N/A)		/	/	/	/	/	/	/	/	/	/	/	/
BPAH-125 ml Plastic HD2004 (pH < 2) (C-)		/	/	/	/	/	/	/	/	/	/	/	/
BPAH-250 ml Plastic HD2004 (pH < 2)		/	/	/	/	/	/	/	/	/	/	/	/
BPAH-125 ml Plastic 2M Acetone II, NaOH (S-)		/	/	/	/	/	/	/	/	/	/	/	/
BPAH-250 ml Plastic HD2004 (pH > 12) (C-)		/	/	/	/	/	/	/	/	/	/	/	/
WSPU-100ml-100ml-600ml Glass jar Unpreserved		/	/	/	/	/	/	/	/	/	/	/	/
WBU-125 liter Amber Unpreserved (N/A) (C-)		/	/	/	/	/	/	/	/	/	/	/	/
WBU-250 liter Amber HD (pH < 2)		/	/	/	/	/	/	/	/	/	/	/	/
AGBU-125 ml Amber Unpreserved (N/A) (C-)		/	/	/	/	/	/	/	/	/	/	/	/
AGBU-250 ml Amber HD2004 (pH < 2)		/	/	/	/	/	/	/	/	/	/	/	/
AGBU-125 ml Amber HD2004 (pH < 2)		/	/	/	/	/	/	/	/	/	/	/	/
AGBU(250-250 ml Amber HD2004 (N/A) (C-)		/	/	/	/	/	/	/	/	/	/	/	/
DOBU-40 ml VOA HD (N/A)		/	/	/	/	/	/	/	/	/	/	/	/
WBU-40 ml VOA HD2003 (N/A)		/	/	/	/	/	/	/	/	/	/	/	/
WBU-40 ml VOA Dip (N/A)		/	/	/	/	/	/	/	/	/	/	/	/
DOBU-40 ml VOA HD2004 (N/A)		/	/	/	/	/	/	/	/	/	/	/	/
VOLUME (6 vials per bag 5035 lbs (N/A)		/	/	/	/	/	/	/	/	/	/	/	/
VOLUME (5 vials per bag 4000 lbs (N/A)		/	/	/	/	/	/	/	/	/	/	/	/
SPRT-125 ml Sterile Plastic (N/A - lab)		/	/	/	/	/	/	/	/	/	/	/	/
SPRT-250 ml Sterile Plastic (N/A - lab)		/	/	/	/	/	/	/	/	/	/	/	/
BPAU-250 ml Plastic HD2004 (S, S, S, S)		/	/	/	/	/	/	/	/	/	/	/	/
AGBU-100 ml Amber Unpreserved vials (N/A)		/	/	/	/	/	/	/	/	/	/	/	/
VOLUME-10 ml Sorption vials (N/A)		/	/	/	/	/	/	/	/	/	/	/	/
DOBU-40 ml Amber Unpreserved vials (N/A)		/	/	/	/	/	/	/	/	/	/	/	/

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

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Document Name: Sample Condition Upon Receipt (SCUR)  
 Document No.: F-CAR-CS-033-Rev.06  
 Document Revised: February 7, 2018  
 Page 1 of 2  
 Issuing Authority: Pace Carolinas Quality Office

\*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRD/8015 (water) DOC, LLHg

\*\*Bottom half of box is to list number of bottle

Project #

WQ#: 92391949

PH: RMC Due Date: 07/20/18  
 CLIENT: B2-6CDHEC

P63

Matrix	Container	Volume	Material	Preservation Method	Notes
1	BP10-125 ml. Plastic	Unpreserved (N/A) (C-1)			
2	BP10-250 ml. Plastic	Unpreserved (N/A)			
3	BP10-500 ml. Plastic	Unpreserved (N/A)			
4	BP10-1 Beer Plastic	Unpreserved (N/A)			
5	BP10-125 ml. Plastic	H2SO4 (pH < 2) (C-1)			
6	BP10-250 ml. Plastic	H2SO4 (pH < 2)			
7	BP10-125 ml. Plastic	2% Acetic & H2O2 (P-1)			
8	BP10-125 ml. Plastic	H2O2 (pH > 12) (C-1)			
9	WQ10-1 WQ10	Unpreserved (N/A)			
10	AG10-1 Beer Amber	Unpreserved (N/A) (C-1)			
11	AG10-1 Beer Amber	HCl (pH < 2)			
12	AG10-1 Beer Amber	H2SO4 (pH < 2)			
13	AG10-1 Beer Amber	H2SO4 (pH < 2)			
14	AG10-1 Beer Amber	H2SO4 (pH < 2)			
15	AG10-1 Beer Amber	H2SO4 (pH < 2)			
16	AG10-1 Beer Amber	H2SO4 (pH < 2)			
17	AG10-1 Beer Amber	H2SO4 (pH < 2)			
18	AG10-1 Beer Amber	H2SO4 (pH < 2)			
19	AG10-1 Beer Amber	H2SO4 (pH < 2)			
20	AG10-1 Beer Amber	H2SO4 (pH < 2)			
21	AG10-1 Beer Amber	H2SO4 (pH < 2)			
22	AG10-1 Beer Amber	H2SO4 (pH < 2)			
23	AG10-1 Beer Amber	H2SO4 (pH < 2)			
24	AG10-1 Beer Amber	H2SO4 (pH < 2)			
25	AG10-1 Beer Amber	H2SO4 (pH < 2)			
26	AG10-1 Beer Amber	H2SO4 (pH < 2)			
27	AG10-1 Beer Amber	H2SO4 (pH < 2)			
28	AG10-1 Beer Amber	H2SO4 (pH < 2)			
29	AG10-1 Beer Amber	H2SO4 (pH < 2)			
30	AG10-1 Beer Amber	H2SO4 (pH < 2)			
31	AG10-1 Beer Amber	H2SO4 (pH < 2)			
32	AG10-1 Beer Amber	H2SO4 (pH < 2)			
33	AG10-1 Beer Amber	H2SO4 (pH < 2)			
34	AG10-1 Beer Amber	H2SO4 (pH < 2)			
35	AG10-1 Beer Amber	H2SO4 (pH < 2)			
36	AG10-1 Beer Amber	H2SO4 (pH < 2)			
37	AG10-1 Beer Amber	H2SO4 (pH < 2)			
38	AG10-1 Beer Amber	H2SO4 (pH < 2)			
39	AG10-1 Beer Amber	H2SO4 (pH < 2)			
40	AG10-1 Beer Amber	H2SO4 (pH < 2)			
41	AG10-1 Beer Amber	H2SO4 (pH < 2)			
42	AG10-1 Beer Amber	H2SO4 (pH < 2)			
43	AG10-1 Beer Amber	H2SO4 (pH < 2)			
44	AG10-1 Beer Amber	H2SO4 (pH < 2)			
45	AG10-1 Beer Amber	H2SO4 (pH < 2)			
46	AG10-1 Beer Amber	H2SO4 (pH < 2)			
47	AG10-1 Beer Amber	H2SO4 (pH < 2)			
48	AG10-1 Beer Amber	H2SO4 (pH < 2)			
49	AG10-1 Beer Amber	H2SO4 (pH < 2)			
50	AG10-1 Beer Amber	H2SO4 (pH < 2)			
51	AG10-1 Beer Amber	H2SO4 (pH < 2)			
52	AG10-1 Beer Amber	H2SO4 (pH < 2)			
53	AG10-1 Beer Amber	H2SO4 (pH < 2)			
54	AG10-1 Beer Amber	H2SO4 (pH < 2)			
55	AG10-1 Beer Amber	H2SO4 (pH < 2)			
56	AG10-1 Beer Amber	H2SO4 (pH < 2)			
57	AG10-1 Beer Amber	H2SO4 (pH < 2)			
58	AG10-1 Beer Amber	H2SO4 (pH < 2)			
59	AG10-1 Beer Amber	H2SO4 (pH < 2)			
60	AG10-1 Beer Amber	H2SO4 (pH < 2)			
61	AG10-1 Beer Amber	H2SO4 (pH < 2)			
62	AG10-1 Beer Amber	H2SO4 (pH < 2)			
63	AG10-1 Beer Amber	H2SO4 (pH < 2)			
64	AG10-1 Beer Amber	H2SO4 (pH < 2)			
65	AG10-1 Beer Amber	H2SO4 (pH < 2)			
66	AG10-1 Beer Amber	H2SO4 (pH < 2)			
67	AG10-1 Beer Amber	H2SO4 (pH < 2)			
68	AG10-1 Beer Amber	H2SO4 (pH < 2)			
69	AG10-1 Beer Amber	H2SO4 (pH < 2)			
70	AG10-1 Beer Amber	H2SO4 (pH < 2)			
71	AG10-1 Beer Amber	H2SO4 (pH < 2)			
72	AG10-1 Beer Amber	H2SO4 (pH < 2)			
73	AG10-1 Beer Amber	H2SO4 (pH < 2)			
74	AG10-1 Beer Amber	H2SO4 (pH < 2)			
75	AG10-1 Beer Amber	H2SO4 (pH < 2)			
76	AG10-1 Beer Amber	H2SO4 (pH < 2)			
77	AG10-1 Beer Amber	H2SO4 (pH < 2)			
78	AG10-1 Beer Amber	H2SO4 (pH < 2)			
79	AG10-1 Beer Amber	H2SO4 (pH < 2)			
80	AG10-1 Beer Amber	H2SO4 (pH < 2)			
81	AG10-1 Beer Amber	H2SO4 (pH < 2)			
82	AG10-1 Beer Amber	H2SO4 (pH < 2)			
83	AG10-1 Beer Amber	H2SO4 (pH < 2)			
84	AG10-1 Beer Amber	H2SO4 (pH < 2)			
85	AG10-1 Beer Amber	H2SO4 (pH < 2)			
86	AG10-1 Beer Amber	H2SO4 (pH < 2)			
87	AG10-1 Beer Amber	H2SO4 (pH < 2)			
88	AG10-1 Beer Amber	H2SO4 (pH < 2)			
89	AG10-1 Beer Amber	H2SO4 (pH < 2)			
90	AG10-1 Beer Amber	H2SO4 (pH < 2)			
91	AG10-1 Beer Amber	H2SO4 (pH < 2)			
92	AG10-1 Beer Amber	H2SO4 (pH < 2)			
93	AG10-1 Beer Amber	H2SO4 (pH < 2)			
94	AG10-1 Beer Amber	H2SO4 (pH < 2)			
95	AG10-1 Beer Amber	H2SO4 (pH < 2)			
96	AG10-1 Beer Amber	H2SO4 (pH < 2)			
97	AG10-1 Beer Amber	H2SO4 (pH < 2)			
98	AG10-1 Beer Amber	H2SO4 (pH < 2)			
99	AG10-1 Beer Amber	H2SO4 (pH < 2)			
100	AG10-1 Beer Amber	H2SO4 (pH < 2)			

Sample ID	Type of Preservation	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

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**CHAIN-OF-CUSTODY / Analytical Request Document**  
 The Chain-of-Custody is a LEGAL DOCUMENT. All relevant facts must be completed accurately.

<b>Section A</b> Required Client Information: Company: SCHEC Address: 2800 Bell St Columbia, SC 29001 Contact: [Handwritten]		<b>Section B</b> Required Project Information: Report To: H. Thayer Copy To: Project Name: Uprady Simmons Project Number: PAT-1885 / PACE-55571		<b>Section C</b> Invoice Information: Attention: Company Name: Address: City/State: Project Manager: T. Carter Phone/Fax:		Page: 1 of 3 2241152
<b>Section D</b> Required Client Information: Matrix Code: Drinking Water: CW Wastewater: WW Process: P Surface: S Air: A Other: O		Matrix Code: Drinking Water: CW Wastewater: WW Process: P Surface: S Air: A Other: O		REGULATORY AGENCY: <input type="checkbox"/> NPDES <input type="checkbox"/> GROUND WATER <input type="checkbox"/> DRINKING WATER <input checked="" type="checkbox"/> LIST <input type="checkbox"/> RCRA <input type="checkbox"/> OTHER		Site Location: STATE: SC Jasper
SAMPLE ID (AZ, 0-9, -) Sample ID MUST BE UNIQUE		COLLECTED: DATE TIME DATE TIME 7-12-18 13:50		Requested Analyte Filtered (Y/N)		92591949
1 MWC-1 2 MWC-2 3 MWC-3 4 MWC-4 5 MWC-5 6 MWC-6 7 MWC-7 8 MWC-8 9 MWC-9 10 MWC-10 11 MWC-11 12 MWC-12	DATE TIME DATE TIME 7/12/18 13:50 7/12/18 14:05 7/12/18 13:25 7/12/18 10:40 7/12/18 13:15 7/12/18 14:10 7/12/18 13:30 7/12/18 14:15 7/12/18 13:25 7/12/18 13:50 7/12/18 13:45	PRESERVATIVES: UNPRESERVED HCL HNO3 H2SO4 HCl NaOH NH4SCN MANTIC Other	ANALYTES: [Handwritten list of analytes]	Requested Analyte Filtered (Y/N)	Pace Project No./ Lab ID: 18-088-012 18-088-003 18-088-003 18-088-003 18-088-003 18-088-003 18-088-003 18-088-003 18-088-003 18-088-003 18-088-003 18-088-003	
ADDITIONAL COMMENTS:		DELIVERED BY / AFFILIATION: [Handwritten signature]		ACCEPTED BY / AFFILIATION: [Handwritten signature]		SAMPLE CONDITIONS: 4 10 4
ORIGINAL		SAMPLER NAME AND SIGNATURE: PRINT Name of SAMPLER: James Colman SIGNATURE OF SAMPLER: [Handwritten signature]		DATE/TIME (Priority): 07/12/18		Temperature (°C): Requested in (Y/N): Collected in (Y/N): Analyzed in (Y/N):



### CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant facts must be completed accurately.

Section A Required Client Information			Section B Required Project Information			Section C Analyst Information			Page 2 of 3 2241154		
Company: <b>SCDHCC</b>			Report To: <b>A Thrash</b>			Attention:			REGULATORY AGENCY		
Address: <b>1000 Mill St Columbia, SC 29201</b>			Copy To:			Company Name:			<input type="checkbox"/> NPDES <input type="checkbox"/> GROUND WATER <input type="checkbox"/> DRINKING WATER <input checked="" type="checkbox"/> USE <input type="checkbox"/> RCRA <input type="checkbox"/> OTHER		
Project No.: <b>15-13-007</b>			Purchase Order No.:			Site Location:			STATE: <b>SC</b>		
Requested Date/DELTA:			Project Name: <b>Shady Simmons</b>			Site Location:			STATE: <b>Jasper</b>		
Requested Date/DELTA:			Project Name: <b>15-13-007 / 15-13-007</b>			Site Location:			STATE: <b>Jasper</b>		

ITEM #	MATRIX CODE	DATE	TIME	DATE	TIME	# OF CONTAINERS	PRESERVED							ANALYSIS TEST #	RESIDUAL CHLORINE (Y/N)	Pace Project No. / Lab ID.
							As Collected	As Preserved	As Preserved	As Preserved	As Preserved	As Preserved	As Preserved			
1	MW-13			7/10/18	10:50	5		X							No Order 013	
2	MW-14				10:50										014	
3	MW-15				11:10										015	
4	MW-16				11:30										016	
5	MW-17				10:17										017	
6	MW-1				14:06										018	
7	MW-2				14:10										019	
8	MW-3				13:08										020	
9	MW-4				11:20										021	
10	MW-5				11:50										022	
11	MW-6				12:28										023	
12	MW-7			7/10/18	15:17	5		X							No Order 024	

ADDITIONAL COMMENTS	RECORDED BY / APPLICATION	DATE	TIME	ACCEPTED BY / APPLICATION	DATE	TIME	SAMPLE CONDITIONS
	<i>[Signature]</i>	7/13/18	14:45	<i>[Signature]</i>	7/13/18	14:45	Y N Y

ORIGINAL		SAMPLER NAME AND SIGNATURE		Temp in °C	Received on (Y/N)	Samp. Date (Y/N)	Samp. Time (Y/N)
PRINT NAME OF SAMPLER		<i>[Signature]</i>					
SIGNATURE OF SAMPLER		<i>[Signature]</i>		DATE/ TIME RECEIVED: 07/13/18			



**CHAIN-OF-CUSTODY / Analytical Request Document**  
 The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A Requester Contact Information		Section B Requested Project Information		Section C Invoice Information		Page: 3 of 3									
Contact: SCHEC Address: 2100 Bell St. City: Columbia, SC 29201 Email: Hirsch@paceusa.com Phone: 803.733.0007 Requested Date/TIME:		Report To: H. Thomas Copy To: Purchase Order No.: Project Name: Steady Summer Project Address: 11155C/11155-5571		Attention: Company Name: Address: Fax Date/Reference: Project Manager: T. Cotton Pace Order #:		2241153 REGULATORY AGENCY <input type="checkbox"/> NPDES <input type="checkbox"/> GROUND WATER <input type="checkbox"/> DRINKING WATER <input checked="" type="checkbox"/> USE <input type="checkbox"/> RCRA <input type="checkbox"/> OTHER Site Location: STATE: SC Jasper									
Section D Sample/Client Information		Matrix Code		Requested Analysis Filled (Y/N)		Nestral Chain# (Y/N)									
Matrix Code Legend: Drinking Water: DW Private Waste Water: WYR Public Sewerage: SW Other: OTH		Matrix Code: SAMPLE TYPE: WYR USE: DW		Preservatives: NONE, HCl, HNO3, H2SO4, Boric Acid, Other		Nestral Chain# (Y/N): 92391949 Pace Project No./ Lab ID:									
ITEM #	SAMPLE ID	COLLECTED				SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	PRESERVATIVE	ANALYSIS YEAR	ANALYSIS MONTH	ANALYSIS DAY	ANALYSIS TIME	ANALYSIS STATUS		
		DATE	TIME	DATE	TIME										
1	IN-8	7/10/18	10:45			5									
2	DUP-1		10:10			5									
3	DUP-2		15:17			5									
4	FB		15:20			5									
5	TD		15:22			5									
6	SW-1		15:30			5									
7	SW-2		15:30			5									
8	SW-3		15:32			5									
9															
10															
11															
12															
ADDITIONAL COMMENTS		REQ. BY / AFFILIATION		DATE		TIME		ACCEPTED BY / AFFILIATION		DATE		TIME		SAMPLE CONDITIONS	
		John Roy		7/13/18		12:44		James Paul		7/13/18		12:48		4.5 Y N Y	
ORIGINAL		SAMPLER NAME AND SIGNATURE		PRINT NAME OF SAMPLER		SIGNATURE OF SAMPLER		DATE RECEIVED (MM/DD/YY)		TEMP IN °C		RECEIVED ON (MM/DD/YY)		ANALYSIS STATUS	
		James Paul		James Paul		J. Paul		07/13/18		4.5					

\*Pace Analytical, Inc. is a registered provider of Chain-of-Custody (COC) services. All samples are analyzed in accordance with EPA Method 1631. Pace Analytical, Inc. is not responsible for the accuracy of the results of the analysis.



AUG 30 2018



TREY CARTER  
PACE ANALYTICAL SERVICES  
9800 KINCEY AVENUE SUITE 100  
HUNTERSVILLE NC 28078

Re: Laboratory Analyses Approval  
(Analytical) Bid #IFB-5400012961-04/06/17-EMW; PO #4600656212

Dear Mr. Carter:

Under the terms and conditions of the referenced bid package, analytical sampling has been approved for the referenced facility. The facility has been assigned an individual Cost Agreement (CA) number listed below. Please reference the CA number and Purchase Order #460063990 on the appropriate invoice submitted for payment against the facility.

UST #	FACILITY NAME	VIALS/SUPPLIES NEEDED (Y/N)	MONITORING WELL (ANALYSES-GROUNDWATER)	WATER SUPPLY WELL (ANALYSES-GROUNDWATER)	CA #
18856	Stead Simmons	N		1	57873

If you have any questions or need further assistance, please contact Robert A. Dunn by phone (803) 898-0671 or email dunnra@dhec.sc.gov.

Sincerely,

Kathryn H. Butler, Hydrogeologist  
Corrective Action & Field Support Section  
UST Management Division  
Bureau of Land & Waste Management

Enc: Approved Cost Agreement

Cc: Robert A. Dunn, UST Management Division, Corrective Action & Field Support Section  
Technical File

**Approved Cost Agreement      57873**

Facility: 18856 STEADY SIMMONS

BUTLERKH

PO Number:

<u>Task / Description</u>	<u>Categories</u>	<u>Item Description</u>	<u>Qty / Pct</u>	<u>Unit Price</u>	<u>Amount</u>
11 ANALYSES					
	WATER DRINKING WATER	L BTEXNM+1,2 DCA (524.2)	4.0000	\$36.000	144.00
		M 7-OXYGENATES & ETHANOL (8260B)	4.0000	\$13.000	52.00
			<b>Total Amount</b>		<b>196.00</b>





**Site-Specific Work Plan for Approved ACQAP  
Underground Storage Tank Management Division**



To: Kathryn H. Butler (SCDHEC Project Manager)  
 From: SC DHEC - Kathryn H. Butler (Contractor Project Manager)  
 Contractor: DHEC UST Contractor Certification Number: UCC-0116

Facility Name: STEADY SIMMONS UST Permit #: 18856  
 Facility Address: 16661 GRAYS HWY, EARLY BRANCH, SC 29916  
 Responsible Party: Orphan Site (Steady Simmons) Phone: 843-726-8285  
 RP Address: RT 4 PO BOX 155H, RIDGELAND, SC 29936  
 Property Owner (if different): Wayne Thompson  
 Property Owner Address: 16657 GRAYS HWY, EARLY BRANCH, SC 29916  
 Current Use of Property: Abandoned Fuel Station

**Scope of Work** (Please check all that apply)

- IGWA       Tier II       Groundwater Sampling       GAC  
 Tier I       Monitoring Well Installation       Other \_\_\_\_\_

**Analyses** (Please check all that apply)

Groundwater/Surface Water:

- |   |  |                                      |   |
|---|--|--------------------------------------|---|
| <input type="checkbox"/> BTEXNMDCA (8260B)  | <input type="checkbox"/> Lead          | <input type="checkbox"/> BOD         | <input type="checkbox"/> Methane        |
| <input type="checkbox"/> Oxygenates (8260B) | <input type="checkbox"/> 8 RCRA Metals | <input type="checkbox"/> Nitrate     | <input type="checkbox"/> Ethanol        |
| <input type="checkbox"/> EDB (8011)         | <input type="checkbox"/> TPH           | <input type="checkbox"/> Sulfate     | <input type="checkbox"/> Dissolved Iron |
| <input type="checkbox"/> PAH (8270D)        | <input type="checkbox"/> pH            | <input type="checkbox"/> Other _____ |   |

Drinking Water Supply Wells:

- BTEXNMDCA (524.2)       Mercury (200.8 245.1 or 245.2)       EDB (504.1)  
 Oxygenates & Ethanol (8260B)       RCRA Metals (200.8)

Soil:

- |                                 |  |  |  |                                     |
|---------------------------------|--|--|--|-------------------------------------|
| <input type="checkbox"/> BTEXNM | <input type="checkbox"/> Lead                | <input type="checkbox"/> RCRA Metals           | <input type="checkbox"/> TPH-DRO (3550B/8015B) | <input type="checkbox"/> Grain Size |
| <input type="checkbox"/> PAH    | <input type="checkbox"/> Oil & Grease (9071) | <input type="checkbox"/> TPH-GRO (5030B/8015B) | <input type="checkbox"/> TOC                   |                                     |

Air:

- BTEXN

**Sample Collection** (Estimate the number of samples of each matrix that are expected to be collected.)

\_\_\_\_\_ Soil      1 \_\_\_\_\_ Water Supply Wells      \_\_\_\_\_ Air      1 \_\_\_\_\_ Field Blank  
 \_\_\_\_\_ Monitoring Wells      \_\_\_\_\_ Surface Water      1 \_\_\_\_\_ Duplicate      1 \_\_\_\_\_ Trip Blank

**Field Screening Methodology**

Estimate number and total completed depth for each point, and include their proposed locations on the attached map.

# of shallow points proposed: \_\_\_\_\_ Estimated Footage: \_\_\_\_\_ feet per point  
 # of deep points proposed: \_\_\_\_\_ Estimated Footage: \_\_\_\_\_ feet per point

Field Screening Methodology: \_\_\_\_\_

**Permanent Monitoring Wells**

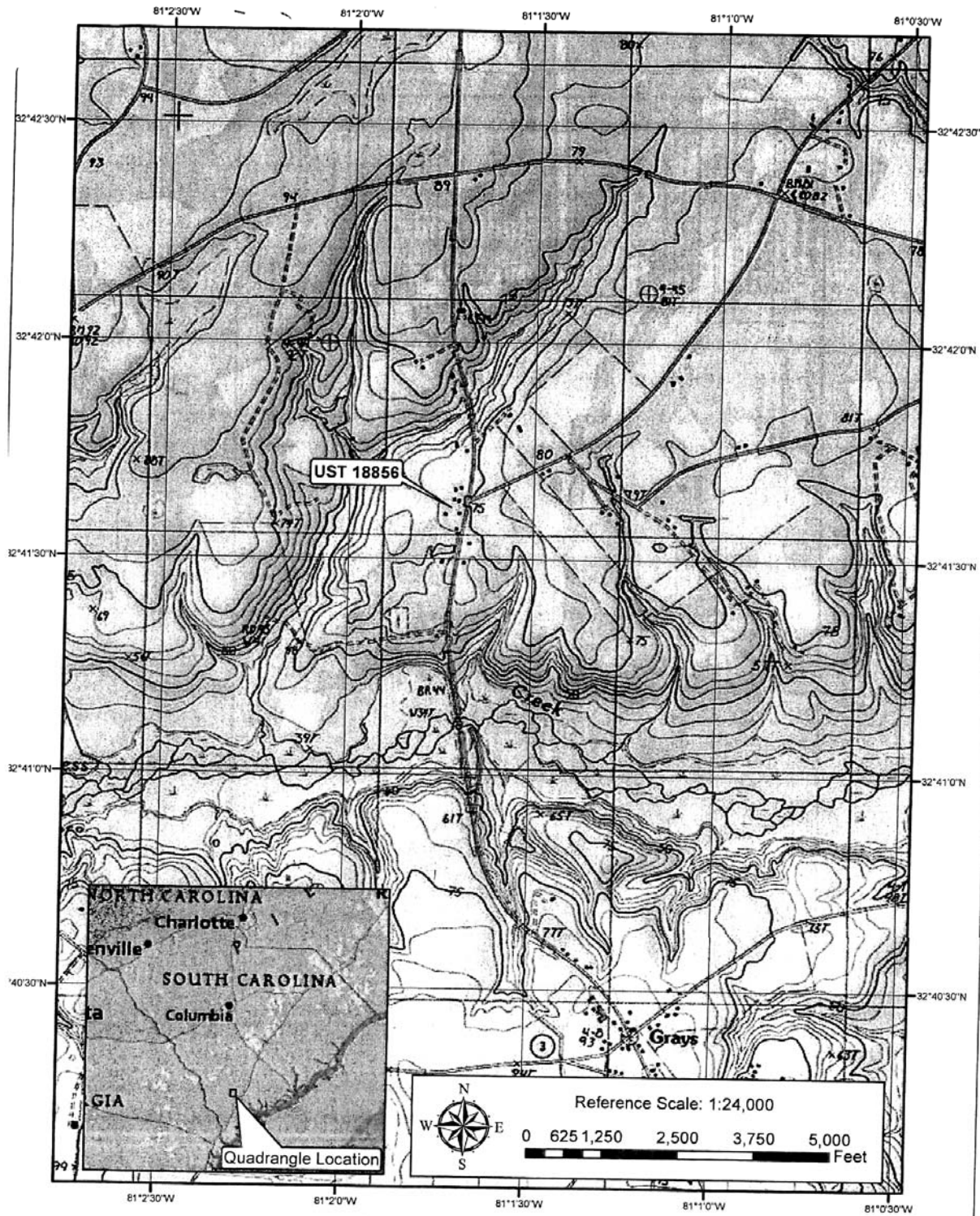
Estimate number and total completed depth for each well, and include their proposed locations on the attached map.

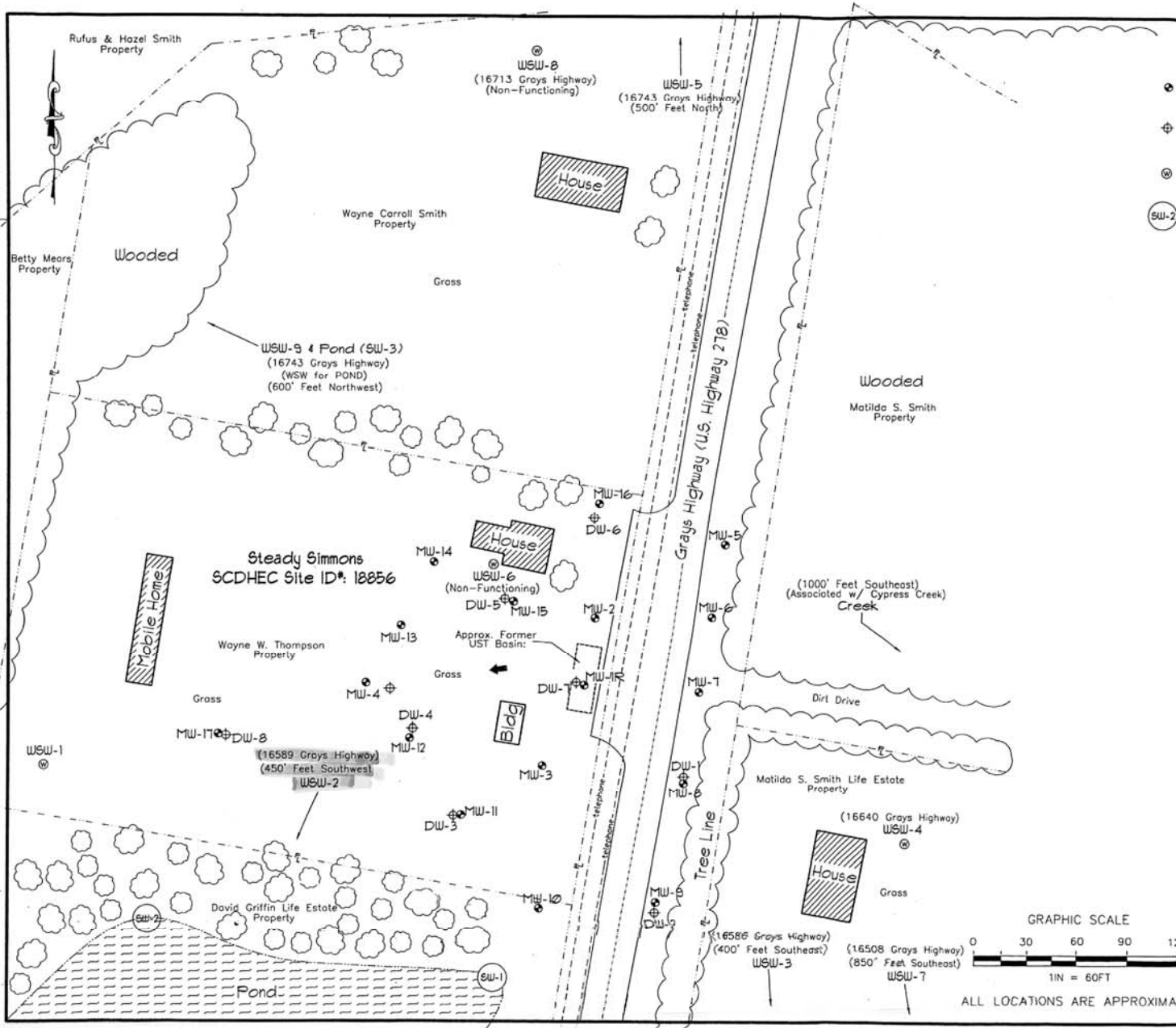
# of shallow wells: \_\_\_\_\_ Estimated Footage: \_\_\_\_\_ feet per point  
 # of deep wells: \_\_\_\_\_ Estimated Footage: \_\_\_\_\_ feet per point  
 # of recovery wells: \_\_\_\_\_ Estimated Footage: \_\_\_\_\_ feet per point

Comments, if warranted:  
 \_\_\_\_\_  
 \_\_\_\_\_

UST Permit #: <u>18856</u> Facility Name: <u>Steady Simmons</u>													
<b>Implementation Schedule</b> (Number of calendar days from approval) Field Work Start-Up: <u>August 30, 2018</u> Field Work Completion: <u>August 30, 2018</u> Report Submittal: _____ # of Copies Provided to Property Owners: <u>1</u>													
<b>Aquifer Characterization</b> Pump Test: <input type="checkbox"/> Slug Test: <input type="checkbox"/> (Check one and provide explanation below for choice) _____ _____													
<b>Investigation Derived Waste Disposal</b> Soil: _____ Tons Purge Water: _____ Gallons Drilling Fluids: _____ Gallons Free-Phase Product: _____ Gallons													
<b>Additional Details For This Scope of Work</b> For example, list wells to be sampled, wells to be abandoned/repared, well pads/bolts/caps to replace, details of AFVR event, etc. <u>DHEC Staff sample of WSW-2 to determine if the detects of MTBE are still present</u> _____ _____ _____ _____													
<b>Compliance With Annual Contractor Quality Assurance Plan (ACQAP)</b> <u>Y</u> Laboratory as indicated in ACQAP? (Yes/No) If no, indicate laboratory information below. Name of Laboratory: <u>Pace Analytical Services LLC Huntersville</u> SCDHEC Certification Number: _____ Name of Laboratory Director: _____  _____ Well Driller as indicated in ACQAP? (Yes/No) If no, indicate driller information below. Name of Well Driller: _____ SCLLR Certification Number: _____  _____ Other variations from ACQAP. Please describe below. _____ _____ _____													
<b>Attachments</b> 1. Attach a copy of the relevant portion of the USGS topographic map showing the site location. 2. Prepare a site base map. This map must be accurately scaled, but does not need to be surveyed. The map must include the following: <table style="width: 100%; border: none;"> <tr> <td style="width: 50%;">North Arrow</td> <td>Proposed monitoring well locations</td> </tr> <tr> <td>Location of property lines</td> <td>Legend with facility name and address, UST permit number, and bar scale</td> </tr> <tr> <td>Location of buildings</td> <td>Streets or highways (indicate names and numbers)</td> </tr> <tr> <td>Previous soil sampling locations</td> <td>Location of all present and former ASTs and USTs</td> </tr> <tr> <td>Previous monitoring well locations</td> <td>Location of all potential receptors</td> </tr> <tr> <td>Proposed soil boring locations</td> <td></td> </tr> </table> 3. Assessment Component Cost Agreement, SCDHEC Form D-3664		North Arrow	Proposed monitoring well locations	Location of property lines	Legend with facility name and address, UST permit number, and bar scale	Location of buildings	Streets or highways (indicate names and numbers)	Previous soil sampling locations	Location of all present and former ASTs and USTs	Previous monitoring well locations	Location of all potential receptors	Proposed soil boring locations	
North Arrow	Proposed monitoring well locations												
Location of property lines	Legend with facility name and address, UST permit number, and bar scale												
Location of buildings	Streets or highways (indicate names and numbers)												
Previous soil sampling locations	Location of all present and former ASTs and USTs												
Previous monitoring well locations	Location of all potential receptors												
Proposed soil boring locations													

# Steady Simmons UST Permit 18856





**Explanation:**

- ⊙ Location of Watertable Bracketing Monitoring Well
- ⊕ Location of Double Cased "Deep" Monitoring Well
- ⊙ Location of Water Supply Well
- ⊙ (SW-2) Location of Surface Water Sample Collection
- ↑ Estimated Groundwater Flow Direction
- Estimated Location of Removed Underground Storage Tanks
- - - Property Line
- Telephone Under Telephone
- Pond Edge

Potentiometric Data				
Well #	Screened Interval(ft.)	Depth to Water(ft.)	Well Head Elevation	Groundwater Elevation
MW-1R	7-17	NM	69.69	NM
MW-2	7-17	NM	70.10	NM
MW-3	7-17	NM	68.59	NM
MW-4	7-17	NM	67.95	NM
MW-5	5-15	NM	71.78	NM
MW-6	5-15	NM	71.47	NM
MW-7	5-15	NM	71.27	NM
MW-8	5-15	NM	70.90	NM
MW-9	5-15	NM	70.70	NM
MW-10	5-15	NM	66.65	NM
MW-11	5-15	NM	67.16	NM
MW-12	5-15	NM	67.18	NM
MW-13	5-15	NM	68.50	NM
MW-14	5-15	NM	70.14	NM
MW-15	10-20	NM	70.01	NM
MW-16	10-20	NM	71.65	NM
MW-17	4-14	3.20	68.16	64.96
DW-1	35-40	NM	70.95	NM
DW-2	35-40	NM	70.89	NM
DW-3	35-40	NM	67.20	NM
DW-4	33-38	NM	67.51	NM
DW-5	33-38	NM	70.02	NM
DW-6	31-36	NM	71.41	NM
DW-7	31-36	NM	69.82	NM
DW-8	35-40	11.30	67.83	56.53

Notes: Depth to groundwater measured on March 10, 2016.

Site Datum Based on Assumed Spot Elevation.

NM = Not Measured

Drawing Based on MECI Field Notes, Tax Maps, RLS Survey of the Site by Jay S. Joshi dated December 7, 2011, and Figure 2 by Crawford Environmental Services.

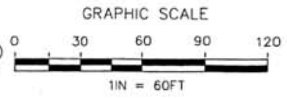
**Potentiometric Data Site Map**

Steady Simmons  
16661 Grays Highway  
Early Branch South Carolina  
SCDHEC Site ID 18856

Midlands  
Environmental  
Consultants, Inc.

JOB NO. 16-5552  
DATE November 15, 2016  
FIGURE

5



ALL LOCATIONS ARE APPROXIMATE

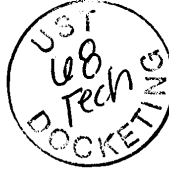


18856

Pace Analytical Services, LLC  
9800 Kincey Ave. Suite 100  
Huntersville, NC 28078  
(704)875-9092

September 11, 2018

Robert Dunn  
SCHDEC  
2600 Bull St  
Columbia, SC 29201



*K. Butler*



RE: Project: STEADY SIMMONS WSW 18856/57873  
Pace Project No.: 92397962

Dear Robert Dunn:

Enclosed are the analytical results for sample(s) received by the laboratory on August 31, 2018. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Trey Carter  
treycarter@pacelabs.com  
(704)875-9092  
Project Manager

Enclosures



**REPORT OF LABORATORY ANALYSIS**

This report shall not be reproduced, except in full,  
without the written consent of Pace Analytical Services, LLC.



### CERTIFICATIONS

Project: STEADY SIMMONS WSW 18856/57873  
Pace Project No.: 92397962

---

#### Ormond Beach Certification IDs

8 East Tower Circle, Ormond Beach, FL 32174  
Alabama Certification #: 41320  
Connecticut Certification #: PH-0216  
Florida Certification #: E83079  
Georgia Certification #: 955  
Guam Certification: FL NELAC Reciprocity  
Hawaii Certification: FL NELAC Reciprocity  
Illinois Certification #: 200068  
Indiana Certification: FL NELAC Reciprocity  
Kansas Certification #: E-10383  
Kentucky Certification #: 90050  
Louisiana Certification #: FL NELAC Reciprocity  
Louisiana Environmental Certificate #: 05007  
Maryland Certification: #346  
Michigan Certification #: 9911  
Mississippi Certification: FL NELAC Reciprocity  
Missouri Certification #: 236  
Montana Certification #: Cert 0074  
Nebraska Certification: NE-OS-28-14

Nevada Certification: FL NELAC Reciprocity  
New Hampshire Certification #: 2958  
New Jersey Certification #: FL022  
New York Certification #: 11608  
North Carolina Environmental Certificate #: 667  
North Carolina Certification #: 12710  
North Dakota Certification #: R-216  
Oklahoma Certification #: D9947  
Pennsylvania Certification #: 68-00547  
Puerto Rico Certification #: FL01264  
South Carolina Certification: #96042001  
Tennessee Certification #: TN02974  
Texas Certification: FL NELAC Reciprocity  
US Virgin Islands Certification: FL NELAC Reciprocity  
Virginia Environmental Certification #: 460165  
Wyoming Certification: FL NELAC Reciprocity  
West Virginia Certification #: 9962C  
Wisconsin Certification #: 399079670  
Wyoming (EPA Region 8): FL NELAC Reciprocity

---

#### Charlotte Certification IDs

9800 Kincey Ave. Ste 100, Huntersville, NC 28078  
Louisiana/NELAP Certification # LA170028  
North Carolina Drinking Water Certification #: 37706  
North Carolina Field Services Certification #: 5342  
North Carolina Wastewater Certification #: 12

South Carolina Certification #: 99006001  
Florida/NELAP Certification #: E87627  
Kentucky UST Certification #: 84  
Virginia/VELAP Certification #: 460221

---

### REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC  
9800 Kinsey Ave. Suite 100  
Huntersville, NC 28078  
(704)875-9092

### SAMPLE SUMMARY

Project: STEADY SIMMONS WSW 18856/57873  
Pace Project No.: 92397962

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92397962001	WSW-2	Water	08/30/18 14:19	08/31/18 13:42
92397962002	DUP	Water	08/30/18 14:22	08/31/18 13:42
92397962003	FIELD BLANK	Water	08/30/18 14:28	08/31/18 13:42
92397962004	TRIP BLANK	Water	08/31/18 00:00	08/31/18 13:42

### REPORT OF LABORATORY ANALYSIS

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**SAMPLE ANALYTE COUNT**

Project: STEADY SIMMONS WSW 18856/57873  
Pace Project No.: 92397962

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92397962001	WSW-2	EPA 524.2	JLR	10	PASI-O
		EPA 8260B	GAW	11	PASI-C
92397962002	DUP	EPA 524.2	JLR	10	PASI-O
		EPA 8260B	GAW	11	PASI-C
92397962003	FIELD BLANK	EPA 524.2	JLR	10	PASI-O
		EPA 8260B	GAW	11	PASI-C
92397962004	TRIP BLANK	EPA 524.2	JLR	10	PASI-O
		EPA 8260B	GAW	11	PASI-C

**REPORT OF LABORATORY ANALYSIS**

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**ANALYTICAL RESULTS**

Project: STEADY SIMMONS WSW 18856/57873

Pace Project No.: 92397962

Sample: WSW-2 Lab ID: 92397962001 Collected: 08/30/18 14:19 Received: 08/31/18 13:42 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>524.2 MSV</b>									
Analytical Method: EPA 524.2									
Benzene	ND	ug/L	0.50	0.25	1		09/10/18 17:31	71-43-2	
1,2-Dichloroethane	ND	ug/L	0.50	0.25	1		09/10/18 17:31	107-06-2	
Ethylbenzene	ND	ug/L	0.50	0.25	1		09/10/18 17:31	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	0.50	0.25	1		09/10/18 17:31	1634-04-4	L1
Naphthalene	ND	ug/L	0.50	0.25	1		09/10/18 17:31	91-20-3	
Toluene	ND	ug/L	0.50	0.25	1		09/10/18 17:31	108-88-3	
Xylene (Total)	ND	ug/L	0.50	0.25	1		09/10/18 17:31	1330-20-7	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	103	%	70-130		1		09/10/18 17:31	460-00-4	
Toluene-d8 (S)	111	%	70-130		1		09/10/18 17:31	2037-26-5	
1,2-Dichloroethane-d4 (S)	120	%	70-130		1		09/10/18 17:31	17060-07-0	
<b>8260 MSV Low Level SC</b>									
Analytical Method: EPA 8260B									
tert-Amyl Alcohol	ND	ug/L	100	50.0	1		09/09/18 04:21	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	0.10	1		09/09/18 04:21	994-05-8	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	50.0	1		09/09/18 04:21	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	3.6	1		09/09/18 04:21	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	1.9	1		09/09/18 04:21	762-75-4	
Diisopropyl ether	ND	ug/L	1.0	0.12	1		09/09/18 04:21	108-20-3	
Ethanol	ND	ug/L	200	131	1		09/09/18 04:21	64-17-5	
Ethyl-tert-butyl ether	ND	ug/L	10.0	0.070	1		09/09/18 04:21	637-92-3	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	101	%	70-130		1		09/09/18 04:21	460-00-4	
1,2-Dichloroethane-d4 (S)	90	%	70-130		1		09/09/18 04:21	17060-07-0	
Toluene-d8 (S)	119	%	70-130		1		09/09/18 04:21	2037-26-5	

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**ANALYTICAL RESULTS**

Project: STEADY SIMMONS WSW 18856/57873  
 Pace Project No.: 92397962

Sample: DUP Lab ID: 92397962002 Collected: 08/30/18 14:22 Received: 08/31/18 13:42 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>524.2 MSV</b>									
Analytical Method: EPA 524.2									
Benzene	ND	ug/L	0.50	0.25	1		09/10/18 17:55	71-43-2	
1,2-Dichloroethane	ND	ug/L	0.50	0.25	1		09/10/18 17:55	107-06-2	
Ethylbenzene	ND	ug/L	0.50	0.25	1		09/10/18 17:55	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	0.50	0.25	1		09/10/18 17:55	1634-04-4	L1
Naphthalene	ND	ug/L	0.50	0.25	1		09/10/18 17:55	91-20-3	
Toluene	ND	ug/L	0.50	0.25	1		09/10/18 17:55	108-88-3	
Xylene (Total)	ND	ug/L	0.50	0.25	1		09/10/18 17:55	1330-20-7	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	103	%	70-130		1		09/10/18 17:55	460-00-4	
Toluene-d8 (S)	112	%	70-130		1		09/10/18 17:55	2037-26-5	
1,2-Dichloroethane-d4 (S)	117	%	70-130		1		09/10/18 17:55	17060-07-0	
<b>8260 MSV Low Level SC</b>									
Analytical Method: EPA 8260B									
tert-Amyl Alcohol	ND	ug/L	100	50.0	1		09/09/18 04:38	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	0.10	1		09/09/18 04:38	994-05-8	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	50.0	1		09/09/18 04:38	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	3.6	1		09/09/18 04:38	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	1.9	1		09/09/18 04:38	762-75-4	
Diisopropyl ether	ND	ug/L	1.0	0.12	1		09/09/18 04:38	108-20-3	
Ethanol	ND	ug/L	200	131	1		09/09/18 04:38	64-17-5	
Ethyl-tert-butyl ether	ND	ug/L	10.0	0.070	1		09/09/18 04:38	637-92-3	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	114	%	70-130		1		09/09/18 04:38	460-00-4	
1,2-Dichloroethane-d4 (S)	92	%	70-130		1		09/09/18 04:38	17060-07-0	
Toluene-d8 (S)	106	%	70-130		1		09/09/18 04:38	2037-26-5	

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**ANALYTICAL RESULTS**

Project: STEADY SIMMONS WSW 18856/57873

Pace Project No.: 92397962

Sample: FIELD BLANK Lab ID: 92397962003 Collected: 08/30/18 14:28 Received: 08/31/18 13:42 Matrix: Water									
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>524.2 MSV</b> Analytical Method: EPA 524.2									
Benzene	ND	ug/L	0.50	0.25	1		09/10/18 18:19	71-43-2	
1,2-Dichloroethane	ND	ug/L	0.50	0.25	1		09/10/18 18:19	107-06-2	
Ethylbenzene	ND	ug/L	0.50	0.25	1		09/10/18 18:19	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	0.50	0.25	1		09/10/18 18:19	1634-04-4	L1
Naphthalene	ND	ug/L	0.50	0.25	1		09/10/18 18:19	91-20-3	
Toluene	ND	ug/L	0.50	0.25	1		09/10/18 18:19	108-88-3	
Xylene (Total)	ND	ug/L	0.50	0.25	1		09/10/18 18:19	1330-20-7	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	103	%	70-130		1		09/10/18 18:19	460-00-4	
Toluene-d8 (S)	108	%	70-130		1		09/10/18 18:19	2037-26-5	
1,2-Dichloroethane-d4 (S)	117	%	70-130		1		09/10/18 18:19	17060-07-0	
<b>8260 MSV Low Level SC</b> Analytical Method: EPA 8260B									
tert-Amyl Alcohol	ND	ug/L	100	50.0	1		09/07/18 19:27	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	0.10	1		09/07/18 19:27	994-05-8	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	50.0	1		09/07/18 19:27	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	3.6	1		09/07/18 19:27	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	1.9	1		09/07/18 19:27	762-75-4	
Diisopropyl ether	ND	ug/L	1.0	0.12	1		09/07/18 19:27	108-20-3	
Ethanol	ND	ug/L	200	131	1		09/07/18 19:27	64-17-5	
Ethyl-tert-butyl ether	ND	ug/L	10.0	0.070	1		09/07/18 19:27	637-92-3	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	102	%	70-130		1		09/07/18 19:27	460-00-4	
1,2-Dichloroethane-d4 (S)	88	%	70-130		1		09/07/18 19:27	17060-07-0	
Toluene-d8 (S)	105	%	70-130		1		09/07/18 19:27	2037-26-5	

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**ANALYTICAL RESULTS**

Project: STEADY SIMMONS WSW 18856/57873  
 Pace Project No.: 92397962

Sample: TRIP BLANK Lab ID: 92397962004 Collected: 08/31/18 00:00 Received: 08/31/18 13:42 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>524.2 MSV</b>									
Analytical Method: EPA 524.2									
Benzene	ND	ug/L	0.50	0.25	1		09/10/18 18:43	71-43-2	
1,2-Dichloroethane	ND	ug/L	0.50	0.25	1		09/10/18 18:43	107-06-2	
Ethylbenzene	ND	ug/L	0.50	0.25	1		09/10/18 18:43	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	0.50	0.25	1		09/10/18 18:43	1634-04-4	L1
Naphthalene	ND	ug/L	0.50	0.25	1		09/10/18 18:43	91-20-3	
Toluene	ND	ug/L	0.50	0.25	1		09/10/18 18:43	108-88-3	
Xylene (Total)	ND	ug/L	0.50	0.25	1		09/10/18 18:43	1330-20-7	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	104	%	70-130		1		09/10/18 18:43	460-00-4	
Toluene-d8 (S)	109	%	70-130		1		09/10/18 18:43	2037-26-5	
1,2-Dichloroethane-d4 (S)	117	%	70-130		1		09/10/18 18:43	17060-07-0	
<b>8260 MSV Low Level SC</b>									
Analytical Method: EPA 8260B									
tert-Amyl Alcohol	ND	ug/L	100	50.0	1		09/07/18 19:44	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	0.10	1		09/07/18 19:44	994-05-8	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	50.0	1		09/07/18 19:44	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	3.6	1		09/07/18 19:44	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	1.9	1		09/07/18 19:44	762-75-4	
Diisopropyl ether	ND	ug/L	1.0	0.12	1		09/07/18 19:44	108-20-3	
Ethanol	ND	ug/L	200	131	1		09/07/18 19:44	64-17-5	
Ethyl-tert-butyl ether	ND	ug/L	10.0	0.070	1		09/07/18 19:44	637-92-3	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	102	%	70-130		1		09/07/18 19:44	460-00-4	
1,2-Dichloroethane-d4 (S)	86	%	70-130		1		09/07/18 19:44	17060-07-0	
Toluene-d8 (S)	107	%	70-130		1		09/07/18 19:44	2037-26-5	

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**QUALITY CONTROL DATA**

Project: STEADY SIMMONS WSW 18856/57873  
 Pace Project No.: 92397962

QC Batch: 476053 Analysis Method: EPA 524.2  
 QC Batch Method: EPA 524.2 Analysis Description: 524.2 MSV  
 Associated Lab Samples: 92397962001, 92397962002, 92397962003, 92397962004

METHOD BLANK: 2577149 Matrix: Water  
 Associated Lab Samples:

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	0.50	0.25	09/10/18 12:18	
Benzene	ug/L	ND	0.50	0.25	09/10/18 12:18	
Ethylbenzene	ug/L	ND	0.50	0.25	09/10/18 12:18	
Methyl-tert-butyl ether	ug/L	ND	0.50	0.25	09/10/18 12:18	
Naphthalene	ug/L	ND	0.50	0.25	09/10/18 12:18	
Toluene	ug/L	ND	0.50	0.25	09/10/18 12:18	
Xylene (Total)	ug/L	ND	0.50	0.25	09/10/18 12:18	
1,2-Dichloroethane-d4 (S)	%	109	70-130		09/10/18 12:18	
4-Bromofluorobenzene (S)	%	100	70-130		09/10/18 12:18	
Toluene-d8 (S)	%	104	70-130		09/10/18 12:18	

LABORATORY CONTROL SAMPLE & LCSD: 2577150

Parameter	Units	2577151								Max RPD	Qualifiers
		Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD			
1,2-Dichloroethane	ug/L	10	10.1	9.5	101	95	70-130	6	40		
Benzene	ug/L	10	8.7	8.1	87	81	70-130	7	40		
Ethylbenzene	ug/L	10	8.4	8.0	84	80	70-130	5	40		
Methyl-tert-butyl ether	ug/L	10	15.1	11.2	151	112	70-130	30	40		
Naphthalene	ug/L	10	8.1	8.5	81	85	70-130	4	40		
Toluene	ug/L	10	7.6	7.6	76	76	70-130	1	40		
Xylene (Total)	ug/L	30	25.7	24.7	86	82	70-130	4	40		
1,2-Dichloroethane-d4 (S)	%				116	112	70-130				
4-Bromofluorobenzene (S)	%				101	102	70-130				
Toluene-d8 (S)	%				101	100	70-130				

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**QUALITY CONTROL DATA**

Project: STEADY SIMMONS WSW 18856/57873  
 Pace Project No.: 92397962

QC Batch: 429491 Analysis Method: EPA 8260B  
 QC Batch Method: EPA 8260B Analysis Description: 8260 MSV Low Level SC  
 Associated Lab Samples: 92397962003, 92397962004

METHOD BLANK: 2370879 Matrix: Water  
 Associated Lab Samples: 92397962003, 92397962004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
3,3-Dimethyl-1-Butanol	ug/L	ND	100	50.0	09/07/18 14:57	
Diisopropyl ether	ug/L	ND	1.0	0.12	09/07/18 14:57	
Ethanol	ug/L	ND	200	131	09/07/18 14:57	
Ethyl-tert-butyl ether	ug/L	ND	10.0	0.070	09/07/18 14:57	
tert-Amyl Alcohol	ug/L	ND	100	50.0	09/07/18 14:57	
tert-Amylmethyl ether	ug/L	ND	10.0	0.10	09/07/18 14:57	
tert-Butyl Alcohol	ug/L	ND	100	3.6	09/07/18 14:57	
tert-Butyl Formate	ug/L	ND	50.0	1.9	09/07/18 14:57	
1,2-Dichloroethane-d4 (S)	%	90	70-130		09/07/18 14:57	
4-Bromofluorobenzene (S)	%	101	70-130		09/07/18 14:57	
Toluene-d8 (S)	%	103	70-130		09/07/18 14:57	

LABORATORY CONTROL SAMPLE: 2370880

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
3,3-Dimethyl-1-Butanol	ug/L	1000	1010	101	70-130	
Diisopropyl ether	ug/L	50	46.5	93	70-130	
Ethanol	ug/L	2000	2010	100	70-130	
Ethyl-tert-butyl ether	ug/L	100	92.0	92	70-130	
tert-Amyl Alcohol	ug/L	1000	980	98	70-130	
tert-Amylmethyl ether	ug/L	100	92.8	93	70-130	
tert-Butyl Alcohol	ug/L	500	449	90	70-130	
tert-Butyl Formate	ug/L	400	369	92	70-130	
1,2-Dichloroethane-d4 (S)	%			87	70-130	
4-Bromofluorobenzene (S)	%			95	70-130	
Toluene-d8 (S)	%			78	70-130	

MATRIX SPIKE SAMPLE: 2370882

Parameter	Units	92397982002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
3,3-Dimethyl-1-Butanol	ug/L	ND	400	361	90	70-130	
Diisopropyl ether	ug/L	ND	20	19.8	99	70-130	
Ethanol	ug/L	ND	800	912	114	70-130	
Ethyl-tert-butyl ether	ug/L	ND	40	36.4	91	70-130	
tert-Amyl Alcohol	ug/L	ND	400	417	104	70-130	
tert-Amylmethyl ether	ug/L	ND	40	42.2	106	70-130	
tert-Butyl Alcohol	ug/L	ND	200	276	138	70-130 M1	
tert-Butyl Formate	ug/L	ND	160	ND	0	70-130 P5	

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**QUALITY CONTROL DATA**

Project: STEADY SIMMONS WSW 18856/57873  
 Pace Project No.: 92397962

MATRIX SPIKE SAMPLE: 2370882

Parameter	Units	92397982002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane-d4 (S)	%					89	70-130
4-Bromofluorobenzene (S)	%					96	70-130
Toluene-d8 (S)	%					95	70-130

SAMPLE DUPLICATE: 2370881

Parameter	Units	92397982001 Result	Dup Result	RPD	Max RPD	Qualifiers
3,3-Dimethyl-1-Butanol	ug/L	ND	ND		30	
Diisopropyl ether	ug/L	ND	ND		30	
Ethanol	ug/L	ND	ND		30	
Ethyl-tert-butyl ether	ug/L	ND	ND		30	
tert-Amyl Alcohol	ug/L	ND	ND		30	
tert-Amylmethyl ether	ug/L	ND	ND		30	
tert-Butyl Alcohol	ug/L	ND	ND		30	
tert-Butyl Formate	ug/L	ND	ND		30	
1,2-Dichloroethane-d4 (S)	%	90	93	3		
4-Bromofluorobenzene (S)	%	99	102	2		
Toluene-d8 (S)	%	101	107	7		

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**QUALITY CONTROL DATA**

Project: STEADY SIMMONS WSW 18856/57873  
 Pace Project No.: 92397962

QC Batch: 429619 Analysis Method: EPA 8260B  
 QC Batch Method: EPA 8260B Analysis Description: 8260 MSV Low Level SC  
 Associated Lab Samples: 92397962001, 92397962002

METHOD BLANK: 2371537 Matrix: Water  
 Associated Lab Samples: 92397962001, 92397962002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
3,3-Dimethyl-1-Butanol	ug/L	ND	100	50.0	09/09/18 02:06	
Diisopropyl ether	ug/L	ND	1.0	0.12	09/09/18 02:06	
Ethanol	ug/L	ND	200	131	09/09/18 02:06	
Ethyl-tert-butyl ether	ug/L	ND	10.0	0.070	09/09/18 02:06	
tert-Amyl Alcohol	ug/L	ND	100	50.0	09/09/18 02:06	
tert-Amylmethyl ether	ug/L	ND	10.0	0.10	09/09/18 02:06	
tert-Butyl Alcohol	ug/L	ND	100	3.6	09/09/18 02:06	
tert-Butyl Formate	ug/L	ND	50.0	1.9	09/09/18 02:06	
1,2-Dichloroethane-d4 (S)	%	85	70-130		09/09/18 02:06	
4-Bromofluorobenzene (S)	%	106	70-130		09/09/18 02:06	
Toluene-d8 (S)	%	113	70-130		09/09/18 02:06	

LABORATORY CONTROL SAMPLE: 2371538

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
3,3-Dimethyl-1-Butanol	ug/L	1000	1010	101	70-130	
Diisopropyl ether	ug/L	50	52.1	104	70-130	
Ethanol	ug/L	2000	2500	125	70-130	
Ethyl-tert-butyl ether	ug/L	100	97.2	97	70-130	
tert-Amyl Alcohol	ug/L	1000	1030	103	70-130	
tert-Amylmethyl ether	ug/L	100	99.4	99	70-130	
tert-Butyl Alcohol	ug/L	500	472	94	70-130	
tert-Butyl Formate	ug/L	400	383	96	70-130	
1,2-Dichloroethane-d4 (S)	%			92	70-130	
4-Bromofluorobenzene (S)	%			93	70-130	
Toluene-d8 (S)	%			95	70-130	

MATRIX SPIKE SAMPLE: 2371540

Parameter	Units	92397985002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
3,3-Dimethyl-1-Butanol	ug/L	ND	400	381	95	70-130	
Diisopropyl ether	ug/L	ND	20	18.9	94	70-130	
Ethanol	ug/L	ND	800	874	109	70-130	
Ethyl-tert-butyl ether	ug/L	ND	40	38.8	97	70-130	
tert-Amyl Alcohol	ug/L	ND	400	401	100	70-130	
tert-Amylmethyl ether	ug/L	ND	40	40.6	102	70-130	
tert-Butyl Alcohol	ug/L	ND	200	266	133	70-130 M1	
tert-Butyl Formate	ug/L	ND	160	50.9	32	70-130 P5	

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**REPORT OF LABORATORY ANALYSIS**





**QUALITY CONTROL DATA**

Project: STEADY SIMMONS WSW 18856/57873  
 Pace Project No.: 92397962

MATRIX SPIKE SAMPLE: 2371540		92397985002	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
1,2-Dichloroethane-d4 (S)	%				90	70-130	
4-Bromofluorobenzene (S)	%				97	70-130	
Toluene-d8 (S)	%				97	70-130	

SAMPLE DUPLICATE: 2371539		92397985001	Dup		Max	
Parameter	Units	Result	Result	RPD	RPD	Qualifiers
3,3-Dimethyl-1-Butanol	ug/L	ND	ND		30	
Diisopropyl ether	ug/L	ND	ND		30	
Ethanol	ug/L	ND	ND		30	
Ethyl-tert-butyl ether	ug/L	ND	ND		30	
tert-Amyl Alcohol	ug/L	ND	ND		30	
tert-Amylmethyl ether	ug/L	ND	ND		30	
tert-Butyl Alcohol	ug/L	ND	ND		30	
tert-Butyl Formate	ug/L	ND	ND		30	
1,2-Dichloroethane-d4 (S)	%	94	86	8		
4-Bromofluorobenzene (S)	%	102	100	1		
Toluene-d8 (S)	%	110	106	4		

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## QUALIFIERS

Project: STEADY SIMMONS WSW 18856/57873  
Pace Project No.: 92397962

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### DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.  
ND - Not Detected at or above adjusted reporting limit.  
TNTC - Too Numerous To Count  
J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.  
MDL - Adjusted Method Detection Limit.  
PQL - Practical Quantitation Limit.  
RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.  
S - Surrogate  
1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.  
Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.  
LCS(D) - Laboratory Control Sample (Duplicate)  
MS(D) - Matrix Spike (Duplicate)  
DUP - Sample Duplicate  
RPD - Relative Percent Difference  
NC - Not Calculable.  
SG - Silica Gel - Clean-Up  
U - Indicates the compound was analyzed for, but not detected.  
Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.  
A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.  
N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.  
Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.  
TNI - The NELAC Institute.

### LABORATORIES

PASI-C Pace Analytical Services - Charlotte  
PASI-O Pace Analytical Services - Ormond Beach

### ANALYTE QUALIFIERS

L1 Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results for this analyte in associated samples may be biased high.  
M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.  
P5 The EPA or method required sample preservation degrades this compound, therefore acceptable recoveries may not be achieved in sample matrix spikes.

## REPORT OF LABORATORY ANALYSIS

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without the written consent of Pace Analytical Services, LLC.



### QUALITY CONTROL DATA CROSS REFERENCE TABLE


Project: STEADY SIMMONS WSW 18856/57873

Pace Project No.: 92397962

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92397962001	WSW-2	EPA 524.2	476053		
92397962002	DUP	EPA 524.2	476053		
92397962003	FIELD BLANK	EPA 524.2	476053		
92397962004	TRIP BLANK	EPA 524.2	476053		
92397962001	WSW-2	EPA 8260B	429619		
92397962002	DUP	EPA 8260B	429619		
92397962003	FIELD BLANK	EPA 8260B	429491		
92397962004	TRIP BLANK	EPA 8260B	429491		

### REPORT OF LABORATORY ANALYSIS

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	Document Name: Sample Condition Upon Receipt(SCUR)	Document Revised: February 7, 2018 Page 1 of 2
	Document No.:	Issuing Authority:
	F-CAR-CS-033-Rev.06	Pace Carolinas Quality Office

Laboratory receiving samples:  
 Asheville  Eden  Greenwood  Huntersville  Raleigh  Mechanicsville

Client Name: SC DHEC Project # **WO# : 92397962**

Courier:  Commercial  Fed Ex  Pace  UPS  USPS  Other:  Client



Custody Seal Present?  Yes  No Seals Intact?  Yes  No

Date/Initials Person Examining Contents: SN 8-31-18

Packing Material:  Bubble Wrap  Bubble Bags  None  Other

Biological Tissue Frozen?  Yes  No  N/A

Thermometer:  IR Gun ID: 92T045 Type of Ice:  Wet  Blue  None

Cooler Temp (°C): 4.9 Correction Factor: Add/Subtract (°C) -0.1

Temp should be above freezing to 6°C

Cooler Temp Corrected (°C): 4.8

Samples out of temp criteria. Samples on ice, cooling process has begun

USDA Regulated Soil ( N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)?

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)?  Yes  No

		Comments/Discrepancy:
Chain of Custody Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Samples Arrived within Hold Time?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Short Hold Time Analysis (<72 hr.)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	3.
Rush Turn Around Time Requested?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	4.
Sufficient Volume?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Correct Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	6.
-Pace Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Containers Intact?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	7.
Dissolved analysis: Samples Field Filtered?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	8.
Sample Labels Match COC?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Includes Date/Time/ID/Analysis Matrix: <u>WT</u>		
Headspace in VOA Vials (>5-6mm)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	10.
Trip Blank Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	11.
Trip Blank Custody Seals Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	

COMMENTS/SAMPLE DISCREPANCY

Field Data Required?  Yes  No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Project Manager SCURF Review: TC

Date: 8/31/18

Project Manager SRF Review: TC

Date: 8/31/18



Document Name:  
 Sample Condition Upon Receipt(SCUR)  
 Document No.:  
 F-CAR-CS-093-Rev.06

Document Revised: February 7, 2018  
 Page 1 of 2  
 Issuing Authority:  
 Pace Carolinas Quality Office

\*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

\*\*Bottom half of box is to list number of bottle

Project #

WO# : 92397962

PH: RWC

Due Date: 08/12/18

CLIENT: 82-SCDHEC

Item #	Item Description	1	2	3	4	5	6	7	8	9	10	11	12
	BP4U-125 mL Plastic Unpreserved (N/A) (C-)	/	/	/	/	/	/	/	/	/	/	/	/
	BP3U-250 mL Plastic Unpreserved (N/A)	/	/	/	/	/	/	/	/	/	/	/	/
	BP2U-500 mL Plastic Unpreserved (N/A)	/	/	/	/	/	/	/	/	/	/	/	/
	BP1U-1 liter Plastic Unpreserved (N/A)	/	/	/	/	/	/	/	/	/	/	/	/
	BP4S-125 mL Plastic H2SO4 (pH < 2) (C-)	/	/	/	/	/	/	/	/	/	/	/	/
	BP3S-250 mL plastic HNO3 (pH < 2)	/	/	/	/	/	/	/	/	/	/	/	/
	BP4C-125 mL Plastic 2N Acetate & NaOH (pH > 12) (C-)	/	/	/	/	/	/	/	/	/	/	/	/
	BP4C-125 mL Plastic NaOH (pH > 12) (C-)	/	/	/	/	/	/	/	/	/	/	/	/
	WGEU-Wide-mouthed Glasses for Unpreserved	/	/	/	/	/	/	/	/	/	/	/	/
	AG1U-1 liter Amber Unpreserved (N/A) (C-)	/	/	/	/	/	/	/	/	/	/	/	/
	AG1H-1 liter Amber HCl (pH < 2)	/	/	/	/	/	/	/	/	/	/	/	/
	AG2U-250 mL Amber Unpreserved (N/A) (C-)	/	/	/	/	/	/	/	/	/	/	/	/
	AG1S-1 liter Amber H2SO4 (pH < 2)	/	/	/	/	/	/	/	/	/	/	/	/
	AG2S-250 mL Amber H2SO4 (pH < 2)	/	/	/	/	/	/	/	/	/	/	/	/
	AG3A (DESA)-250 mL Amber HNO3 (N/A)(C-)	/	/	/	/	/	/	/	/	/	/	/	/
	DGRH-40 mL VOA HCl (N/A)	6	6	6	6	2							
	VGBT-40 mL VOA Na2S2O3 (N/A)												
	VGBU-40 mL VOA Unp (N/A)												
	DGAP-40 mL VOA H3PO4 (N/A)												
	VOAK (6 vials per kit)-5035 kit (N/A)												
	V/GK (3 vials per kit)-VPH/Gas kit (N/A)												
	SPST-125 mL Sterile Plastic (N/A - lab)												
	SPZT-250 mL Sterile Plastic (N/A - lab)												
	BP3A-250 mL Plastic (NH2)2SO4 (9.3-9.7)												
	AGBU-100 mL Amber Unpreserved vials (N/A)												
	V5BU-20 mL Scintillation vials (N/A)												
	DGRU-40 mL Amber Unpreserved vials (N/A)												

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.





Underground Storage Tank Management Division  
Field Activity Request Form

Date of Request: 8/28/2018

Type of Request (Check one):  Emergency (<2 Working Days)  
 Specific (1-5 Working Days)  
 Routine (10 Working Days)

Please specify type of work to be completed:

Site ID #: 18856  
Site Name: Steady Simmons  
Site Address: 16661 Grays Highway, Early Branch, SC  
County: Jasper  
Project Manager: Kathryn H. Butler

Remember to Establish Cost Proposals

PACE CA#: 57873 PACE PO#: 4600639990

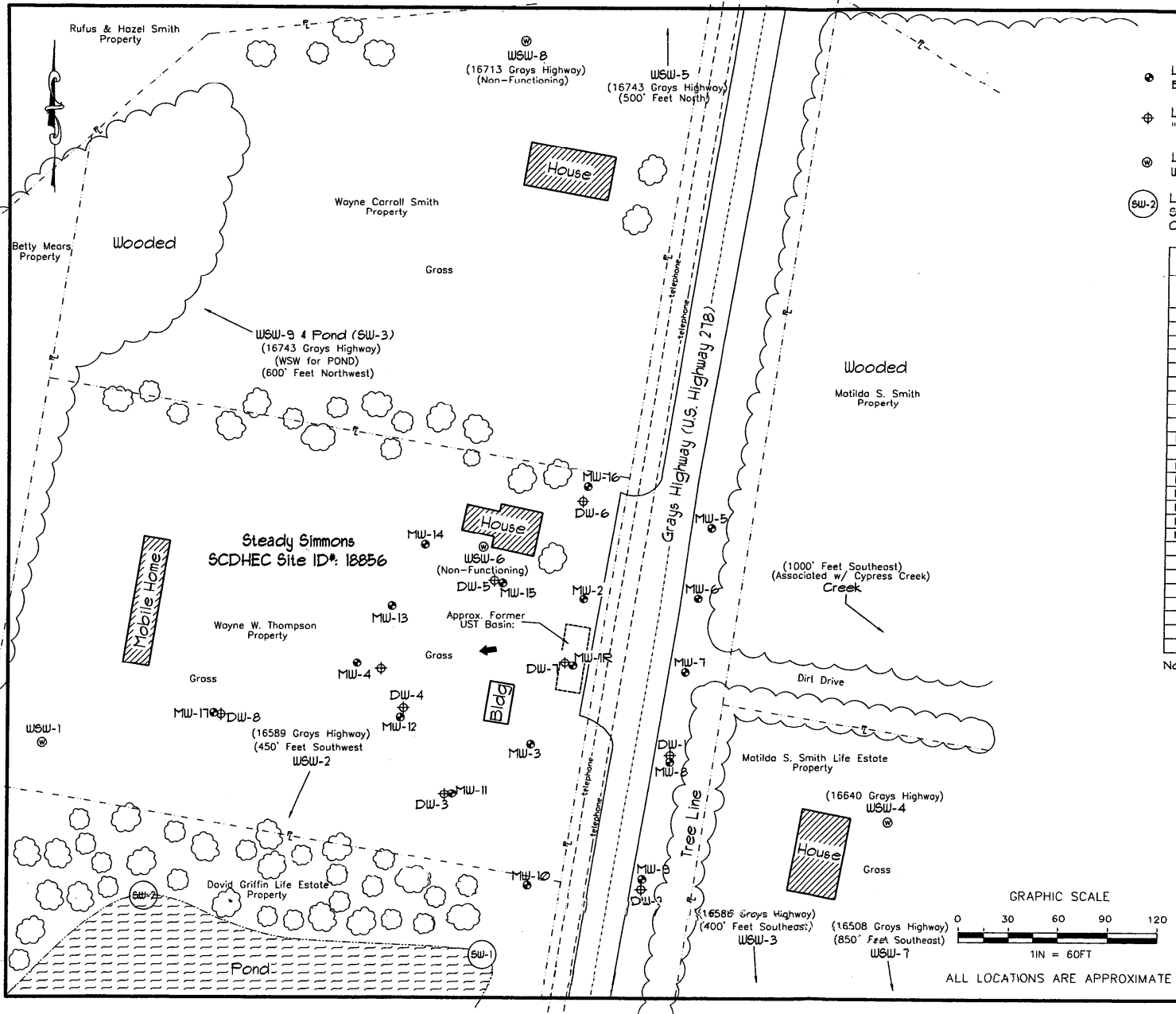
Field Staff Information:

Date Field Activity Completed: 8/30/18  
Completed By: C. White  
Date Field Notes Entered into EFIS: 9/4/18

Notes: Sample WSW-2 at 16589 Grays Highway, Early Branch, SC to determine if MTBE detects are still present (8260B / 524.2).

Please take pictures. SL

\*Multiple other wells on property. Not identified



**Explanation:**

- ⊕ Location of Water Table Bracketing Monitoring Well
- ⊕ Location of Double Cased "Deep" Monitoring Well
- ⊙ Location of Water Supply Well
- ⊙ (SW-2) Location of Surface Water Sample Collection
- ↑ Estimated Groundwater Flow Direction
- Estimated Location of Removed Underground Storage Tanks
- - - - Property Line
- telephone --- Under Ground Telephone
- pond --- Pond Edge

Potentiometric Data				
Well #	Screened Interval(ft.)	Depth to Water(ft.)	Well Head Elevation	Groundwater Elevation
MW-1R	7-17	NM	69.69	NM
MW-2	7-17	NM	70.10	NM
MW-3	7-17	NM	68.59	NM
MW-4	7-17	NM	67.95	NM
MW-5	5-15	NM	71.78	NM
MW-6	5-15	NM	71.47	NM
MW-7	5-15	NM	71.27	NM
MW-8	5-15	NM	70.90	NM
MW-9	5-15	NM	70.70	NM
MW-10	5-15	NM	66.65	NM
MW-11	5-15	NM	67.16	NM
MW-12	5-15	NM	67.18	NM
MW-13	5-15	NM	68.50	NM
MW-14	5-15	NM	70.14	NM
MW-15	10-20	NM	70.01	NM
MW-16	10-20	NM	71.65	NM
MW-17	4-14	3.20	68.16	64.96
DW-1	35-40	NM	70.95	NM
DW-2	35-40	NM	70.89	NM
DW-3	35-40	NM	67.20	NM
DW-4	33-38	NM	67.51	NM
DW-5	33-38	NM	70.02	NM
DW-6	31-36	NM	71.41	NM
DW-7	31-36	NM	69.82	NM
DW-8	35-40	11.30	67.83	56.53

Notes: Depth to groundwater measured on March 10, 2016.

Site Datum Based on Assumed Spot Elevation.

NM = Not Measured

Drawing Based on MECI Field Notes, Tax Maps, RLS Survey of the Site by Jay S. Joshi dated December 7, 2011, and Figure 2 by Crawford Environmental Services.

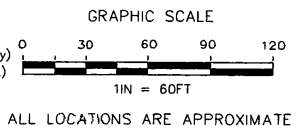
**Potentiometric Data Site Map**

Steady Simmons  
16661 Grays Highway  
Early Branch, South Carolina  
SCDHEC Site ID 18856

Midlands  
Environmental  
Consultants, Inc.

JOB NO. 16-5552  
DATE November 15, 2016  
FIGURE

5







**Underground Storage Tank Management Division  
Field Data Information Sheet – Groundwater Sampling**

**Site Information**

Date: 8/30/18	Site ID #: 18856	Site Name: Steady Simmons
County: Jasper	Project Manager: Kathryn Butler	Field Personnel: Corie White

**Well Sampling Information**

Well ID	Time	Sampled Y/N	Screen Interval (ft.)	Depth to Product (ft.)	Depth to Water (ft.)	Product Thickness (ft.)	D.O. (mg/L)	Temp. (°C)	Specific Conductivity (µmohs/cm)	pH (S.U.)	Turbidity (NTU)	Notes (e.g., Odor, No Odor, Product, etc.)
WS10-2	14:19	Y										
DnP	14:22	Y										
FB	14:28	Y										

Comments: A Lee LaLiberte 803 726 8713 laliberte220@gmail.com

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Signature: *Butler*

**CHAIN-OF-CUSTODY / Analytical Request Document**

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

<b>Section A</b> Required Client Information:	<b>Section B</b> Required Project Information:	<b>Section C</b> Invoice Information:	Page: <span style="font-size: 2em;">1998863</span> of
Company: <b>SC DHEC</b>	Report To: <b>Robert Dunn</b>	Attention:	<b>REGULATORY AGENCY</b> <input type="checkbox"/> NPDES <input type="checkbox"/> GROUND WATER <input checked="" type="checkbox"/> DRINKING WATER <input type="checkbox"/> UST <input type="checkbox"/> RCRA <input type="checkbox"/> OTHER _____
Address: <b>2600 Bull Street</b>	Copy To:	Company Name:	
<b>Columbia, SC 29201</b>		Address:	
Email To: <b>dunnra@dhec.sc.gov</b>	Purchase Order No.:	Pace Quote Reference:	Site Location
Phone: <b>898-0671</b> Fax:	Project Name: <b>Steady Simmons</b>	Pace Project Manager: <b>Trey Carter</b>	STATE: <b>SC</b>
Requested Due Date/TAT:	Project Number: <b>CA # 57873</b>	Pace Profile #:	

ITEM #	Section D Required Client Information		MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED				SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives							Analysis Test Y/N	Requested Analysis Filtered (Y/N)							Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.	
	SAMPLE ID (A-Z, 0-9 / -.) Sample IDs MUST BE UNIQUE				COMPOSITE START		COMPOSITE END/GRAB				Unpreserved	H <sub>2</sub> SO <sub>4</sub>	HNO <sub>3</sub>	HCl	NaOH	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	Methanol		Other									
	DATE	TIME			DATE	TIME																						
1	WSW-2		DW	G			8/30/18	1419	6																			
2	DUP		↓	↓			8/30/18	1422	6																			
3	Field Blank		↓	↓			8/30/18	1428	6																			
4	Trip Blank		↓	↓					2		2																	
5-12																												

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS							
											Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
Report J values	<i>[Signature]</i>			<i>[Signature]</i>	8/31/18	0845								

2

SAMPLER NAME AND SIGNATURE				Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER:			<i>Covie White</i>				
SIGNATURE of SAMPLER:		<i>[Signature]</i>	DATE Signed (MM/DD/YY): <b>8/30/18</b>				

## Instructions for completing Chain of Custody (COC)

1. **Section A and B:** Complete all Client information at top of sheet: company name, address, phone, fax, contact (the person to contact if there are questions, and who will receive the final report.), e-mail address (if available), PO#. Project Name and/or Project Number as you would like to see it appear on the report.
2. **Section C:** Invoice Information: Billing information is included in this section. This information should include the name and address of the person receiving the invoice.
3. Quote Reference should be completed if a quotation was provided by Pace Analytical. The Project Manager, and Profile No. will be completed by Pace Analytical Services.
4. **Site Location:** A separate COC must be filled out for each day of sample collection. Record the two letter postal code for the US state in which the samples were collected.
5. **Regulatory Agency:** List the program that is guiding the work to ensure proper regulations are followed.
6. **Section D:** Complete a Sample Description in the "SAMPLE ID" section as you would like it to appear on the laboratory report. The following information should also be included: the sample matrix, sample type (G (grab) or C (composite). When collecting a composite, the start time and end time should be documented in the respective boxes. The collection time for a grab (G) sample should be entered in the boxes marked "Composite End/Grab"). Sample temp at collection (if required by state), the total number of containers, and preservative used.
7. Mark if the sample was filtered in the field by marking Y or N in "Filtered" row by the Analysis requested.
8. Requested Analysis: List the required analysis and methods on the lines provided and place a check in the column for the samples requiring the analysis. Additional comments should be referenced in the bottom left hand corner or include attachments for extended lists of parameters.
9. The sampler should print their name in the space provided and sign their name followed by the date of the sampling event at the bottom of the COC in the spaces designated for "SAMPLER NAME AND SIGNATURE".
10. When relinquishing custody of the samples to a representative of the laboratory or other organization, indicate the Item Numbers of those samples being transferred; sign relinquished by, date and time, and include your affiliation.

### \*Important Note:

**Standard Turnaround Time is 2 Weeks/10 business days.** Results will be delivered by end of business on the date due unless other arrangements have been made with your project manager.

**Special Project Requirements** such as Low Level Detection Limits or level of QC reported must be included on the chain of custody in the Additional Comments section.



18856

DEC 04 2018



MR BRYAN SHANE PG  
MIDLANDS ENVIRONMENTAL CONSULTANTS  
PO BOX 854  
LEXINGTON SC 29071

Re: Site Specific Work Plan Requests  
Groundwater Sampling Contract  
Solicitation #IFB-5400012906

Dear Mr. Shane:

In accordance with bid solicitation # IFB-5400012906 and the UST Management Division Quality Assurance Program Plan (QAPP) Revision 3.1, submission of Site Specific Work Plans (SSWP) based on each site information package provided is requested.

The SSWP must be submitted within 15 business days to my attention. The project manager for each site will issue a notice to proceed once the plan has been reviewed and approved. Please contact me with the sampling schedule before commencing work at these facilities. A weekly update for each site is required to be submitted via email to the site's project manager and myself. If you have any questions or need further assistance, please contact me by phone (803) 898-0671 or email [dunnra@dhec.sc.gov](mailto:dunnra@dhec.sc.gov).

Sincerely,

A handwritten signature in black ink, appearing to read "R. A. Dunn".

Robert A. Dunn, Hydrogeologist  
Corrective Action Section  
UST Management Division  
Bureau of Land & Waste Management

Enc: Site Information Packages

Cc: Trey Carter, Pace Analytical Services, 9800 Kincey Ave. STE 100, Huntersville, NC 28078 (w/ Memo)  
Technical File (w/o Enc)



UNDERGROUND STORAGE TANK PROGRAM  
BUREAU OF LAND AND WASTE MANAGEMENT  
2600 Bull Street, Columbia, South Carolina 29201  
Telephone: 803-898-2544

**MEMORANDUM**

TO: Midlands Environmental Consultants, Inc

FROM: Kathryn H. Butler

RE: Site Specific Work Plan Request

Facility Name: STEADY SIMMONS

Permit Number: 18856

County: Jasper

Work To Be Completed: Sample all monitoring wells and water supply wells associated with the site.  
Purge wells in which the water table does not bracket the screen.

Total Number of Monitoring Well Samples: 28

Analysis Being Requested: BTEXNM, 1,2 DCA, 8-Oxys and EDB (8260 & 8011)

Total Number of Water Supply Well Samples: 9

Analysis Being Requested: BTEXNM, 1,2 DCA, 8-Oxys and EDB (524.2, 504.1 & 8260)



December 12, 2018

Mr. Robert Dunn, Hydrogeologist  
Corrective Action & Field Support Section  
Underground Storage Tank Management Division  
Bureau of Land and Waste Management  
South Carolina Department of Health  
and Environmental Control  
2600 Bull Street  
Columbia, South Carolina 29201

Subject: Site-Specific Work Plan  
Steady Simmons  
Early Branch, South Carolina  
SCDHEC Site ID Number 18856  
MECI Project Number 18-6716  
Certified Site Rehabilitation Contractor UCC-0009




Dear Mr. Dunn,

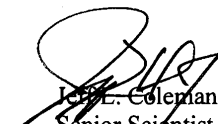
Midlands Environmental Consultants Inc. (MECI) is pleased to submit the attached Site-Specific Work Plan for the referenced site.

On December 10, 2018, MECI personnel performed a site visit to the subject sites to evaluate site conditions, locate monitoring wells and identify potential problems for future sampling activities.

If you have any question or comments please feel free to contact us at 803-808-2043.

Sincerely,  
**Midlands Environmental Consultants, Inc.**

  
Kyle V. Pudney  
Project Biologist

  
Joseph E. Coleman  
Senior Scientist



**Site-Specific Work Plan for Approved ACQAP  
Underground Storage Tank Management Division**

To: Ms. Kathryn H. Butler (SCDHEC Project Manager)  
 From: Jeff L. Coleman (Contractor Project Manager)  
 Contractor: Midlands Environmental Consultants, Inc. UST Contractor Certification Number: 009

Facility Name: Steady Simmons UST Permit #: 18856  
 Facility Address: 16661 Grays Highway, Early Branch, SC 29916  
 Responsible Party: Steady Simmons Phone: N/A  
 RP Address: N/A  
 Property Owner (if different): Wayne Thompson  
 Property Owner Address: 16657 Grays Highway, Early Brach, SC 29916  
 Current Use of Property: Residential

**Scope of Work** (Please check all that apply)  
 IGWA  Tier II  Groundwater Sampling  GAC  
 Tier I  Monitoring Well Installation  Other \_\_\_\_\_

**Analyses** (Please check all that apply)  
 Groundwater/Surface Water:  
 BTEXNMDCA (8260B)  Lead  BOD  Methane  
 Oxygenates (8260B)  8 RCRA Metals  Nitrate  Ethanol  
 EDB (8011)  TPH  Sulfate  Dissolved Iron  
 PAH (8270D)  pH  Other \_\_\_\_\_  
 Drinking Water Supply Wells:  
 BTEXNMDCA (524.2)  Mercury (200.8 245.1 or 245.2)  EDB (504.1)  
 Oxygenates & Ethanol (8260B)  RCRA Metals (200.8)  
 Soil:  
 BTEXNM  Lead  RCRA Metals  TPH-DRO (3550B/8015B)  Grain Size  
 PAH  Oil & Grease (9071)  TPH-GRO (5030B/8015B)  TOC  
 Air:  
 BTEXN

**Sample Collection** (Estimate the number of samples of each matrix that are expected to be collected.)  
 \_\_\_\_\_ Soil 9 Water Supply Wells \_\_\_\_\_ Air 2 Field Blank  
25 Monitoring Wells 3 Surface Water 3 Duplicate 3 Trip Blank

**Field Screening Methodology**  
 Estimate number and total completed depth for each point, and include their proposed locations on the attached map.  
 # of shallow points proposed: \_\_\_\_\_ Estimated Footage: \_\_\_\_\_ feet per point  
 # of deep points proposed: \_\_\_\_\_ Estimated Footage: \_\_\_\_\_ feet per point  
 Field Screening Methodology: \_\_\_\_\_

**Permanent Monitoring Wells**  
 Estimate number and total completed depth for each well, and include their proposed locations on the attached map.  
 # of shallow wells: \_\_\_\_\_ Estimated Footage: \_\_\_\_\_ feet per point  
 # of deep wells: \_\_\_\_\_ Estimated Footage: \_\_\_\_\_ feet per point  
 # of recovery wells: \_\_\_\_\_ Estimated Footage: \_\_\_\_\_ feet per point  
 Comments, if warranted:  
 \_\_\_\_\_  
 \_\_\_\_\_

UST Permit #: <u>18856</u> Facility Name: <u>Steady Simmons</u>
<b>Implementation Schedule</b> (Number of calendar days from approval) Field Work Start-Up: <u>12/12/2018</u> Field Work Completion: <u>1/12/2019</u> Report Submittal: <u>2/4/2019</u> # of Copies Provided to Property Owners: <u>0</u>
<b>Aquifer Characterization</b> Pump Test: <input type="checkbox"/> Slug Test: <input type="checkbox"/> (Check one and provide explanation below for choice) _____ _____
<b>Investigation Derived Waste Disposal</b> Soil: _____ Tons Purge Water: <u>200.0</u> Gallons Drilling Fluids: _____ Gallons Free-Phase Product: _____ Gallons
<b>Additional Details For This Scope of Work</b> For example, list wells to be sampled, wells to be abandoned/repared, well pads/bolts/caps to replace, details of AFVR event, etc. <u>-During the initial site visit, all monitoring wells were located and found to be in good condition.</u> <u>-MECI will attempt to sample three surface water locations and eight water supply wells during the sampling event.</u> <u>-MECI attempted to make initial contact for water supply well sampling within a 1,000 foot radius of the site. Access was denied by the property owner for WSW-7. Water supply wells WSW-6 and WSW-8 were found to be inactive.</u> <u>-Only wells in which the water table does not bracket the screen will be purged prior to sample collection.</u> <u>-Monitoring well and surface water samples will be analyzed for BTEXNM, 1,2-DCA, 8-OXY's (8260B), and EDB (8011).</u> <u>-Water supply well samples will be analyzed for BTEXNM, 1,2-DCA(524.2), 8-OXY's (8260B) and EDB (504.1).</u>
<b>Compliance With Annual Contractor Quality Assurance Plan (ACQAP)</b> <u>Yes</u> Laboratory as indicated in ACQAP? (Yes/No) If no, indicate laboratory information below. Name of Laboratory: _____ SCDHEC Certification Number: _____ Name of Laboratory Director: _____  <u>NA</u> Well Driller as indicated in ACQAP? (Yes/No) If no, indicate driller information below. Name of Well Driller: _____ SCLLR Certification Number: _____  <u>None</u> Other variations from ACQAP. Please describe below. _____ _____ _____
<b>Attachments</b> 1. Attach a copy of the relevant portion of the USGS topographic map showing the site location.  2. Prepare a site base map. This map must be accurately scaled, but does not need to be surveyed. The map must include the following: North Arrow                                      Proposed monitoring well locations Location of property lines                      Legend with facility name and address, UST permit number, and bar scale Location of buildings                              Streets or highways (indicate names and numbers) Previous soil sampling locations                Location of all present and former ASTs and USTs Previous monitoring well locations              Location of all potential receptors Proposed soil boring locations  3. Assessment Component Cost Agreement, SCDHEC Form D-3664





**ASSESSMENT COMPONENT COST AGREEMENT  
SOUTH CAROLINA**

Department of Health and Environmental Control  
Underground Storage Tank Management Division  
State Underground Petroleum Environmental Response Bank Account  
**CONTRACT PO NUMBER 4600559329**

Facility Name: Steady Simmons

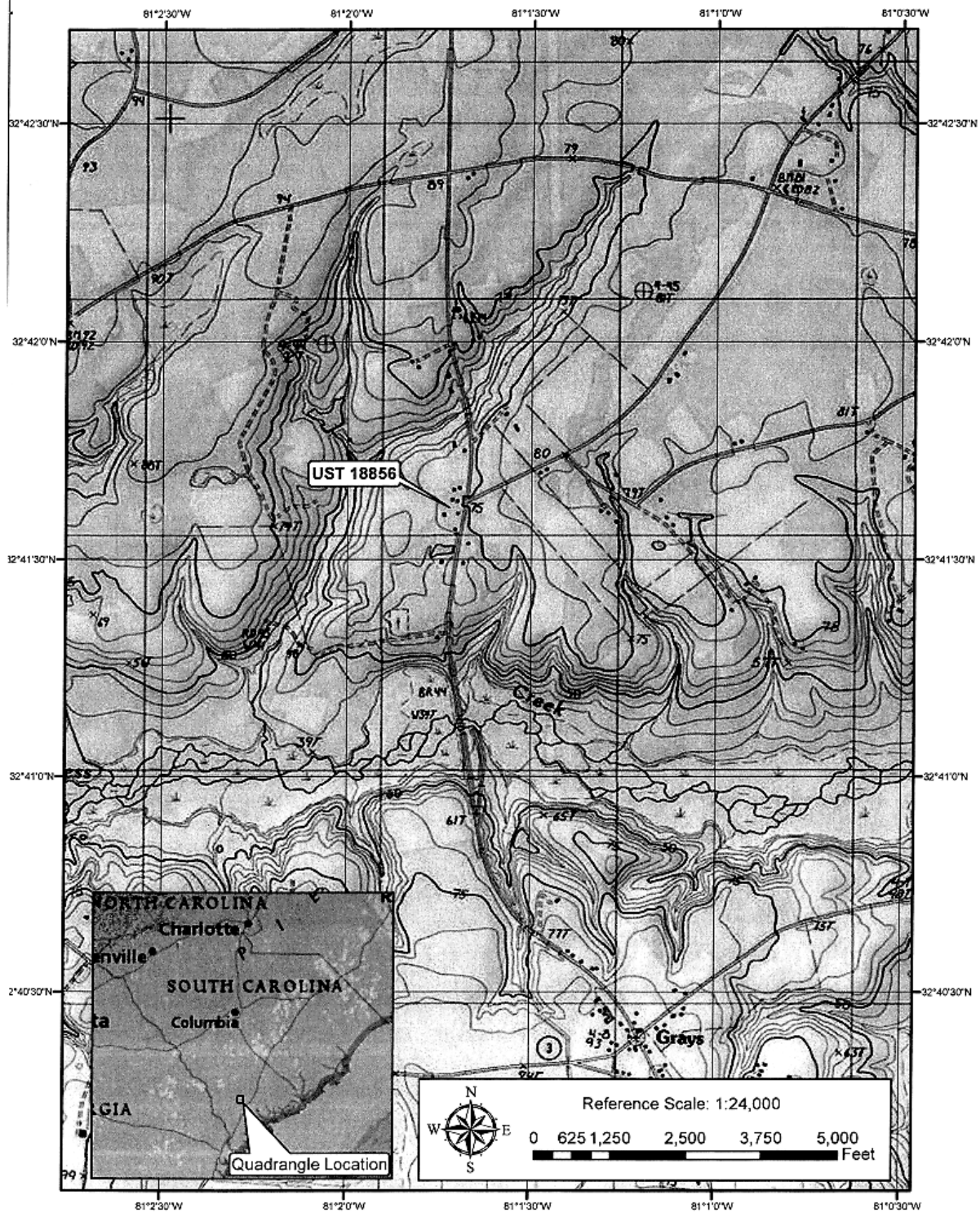
UST Permit #: 18856

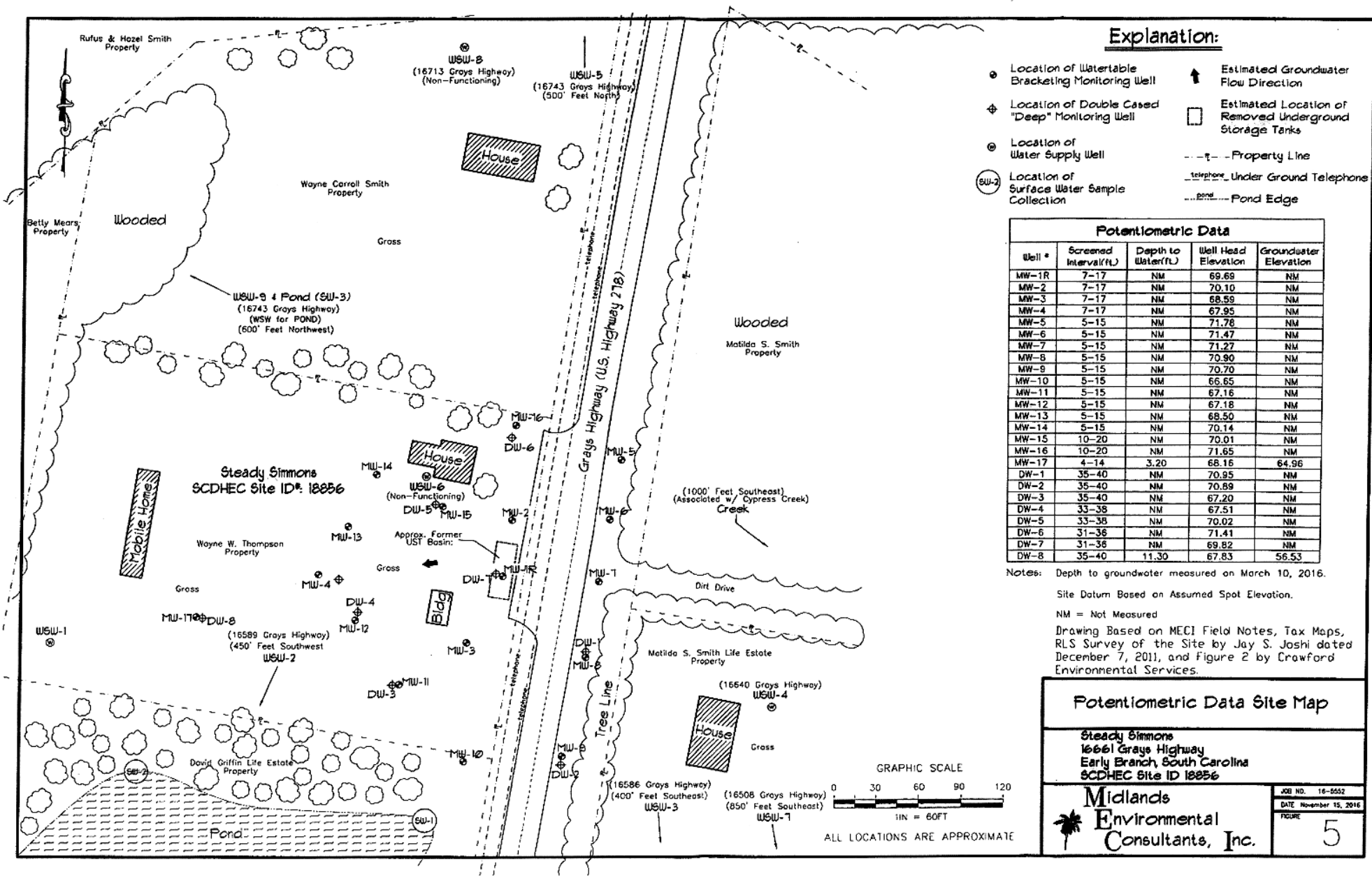
Cost Agreement #: Proposal

ITEM	QUANTITY	UNIT	UNIT PRICE	TOTAL
<b>1. Plan*</b>				
A1. Site Specific Work Plan	1	each	\$1.00	\$1.00
B1. Tax Map		each	\$1.00	\$0.00
C1. QAPP Appendix B		each	\$1.00	\$0.00
2. A1. Receptor Survey		each	\$1.00	\$0.00
<b>4. Mob/Demob</b>				
B1. Personnel	2	each	\$1.00	\$2.00
<b>10. Groundwater Sample Collection / Gauge Depth to Water or Product (Each)</b>				
A1. Groundwater Purge	8	per well	\$36.50	\$292.00
B1. Air or Vapors		samples	\$1.00	\$0.00
C1. Water Supply	8	samples	\$18.00	\$144.00
D1. Groundwater No Purge or Duplicate	20	per well	\$27.50	\$550.00
E1. Gauge Well only		per well	\$1.00	\$0.00
F1. Sample Below Product		per well	\$1.00	\$0.00
G1. Pasive Diffusion Bag		each	\$20.00	\$0.00
H1. Field Blank	2	each	\$1.00	\$2.00
<b>17. Disposal* (gallons or tons)</b>				
AA. Disposal/Water	200	gallons	\$1.00	\$200.00
BB. Free Product		gallons	\$0.05	\$0.00
Note: Rate includes costs or rental of suitable container(s)				
23. D. Site Reconnaissance	1	each	\$1.00	\$1.00
<b>18. Miscellaneous</b>				
GW Contour Map		each	\$25.00	\$0.00
Isopleth Map		each	\$25.00	\$0.00
High-Strength Well Pad Replacement		each	\$75.00	\$0.00
Data Table		each	\$50.00	\$0.00
Low Flow Sampling		per well	\$55.00	\$0.00
<b>25. Well Repair</b>				
B1. Repair 2x2 MW Pad		each	\$50.00	\$0.00
C1. Repair 4x4 MW Pad		each	\$50.00	\$0.00
D1. Replace Well Vault		each	\$50.00	\$0.00
E. Replace well cover		each	\$25.00	\$0.00
F1. Replace well cover bolts		each	\$2.60	\$0.00
G. Replace locking well cap & lock		each	\$15.00	\$0.00
K1. Replace Missing Well ID Plate		each	\$10.00	\$0.00
<b>TOTAL</b>				<b>\$1,191.00</b>

\*The appropriate mobilization cost can be added to complete these tasks, as necessary

# Steady Simmons UST Permit 18856





**Explanation:**

- Location of Water Table Bracketing Monitoring Well
- ⊕ Location of Double Cased "Deep" Monitoring Well
- ⊙ Location of Water Supply Well
- ⊙(SU-2) Location of Surface Water Sample Collection
- ↑ Estimated Groundwater Flow Direction
- Estimated Location of Removed Underground Storage Tanks
- - - Property Line
- Telephone --- Under Ground Telephone
- Pond --- Pond Edge

Potentiometric Data				
Well #	Screened Interval(ft.)	Depth to Water(ft.)	Well Head Elevation	Groundwater Elevation
MW-1R	7-17	NM	69.69	NM
MW-2	7-17	NM	70.10	NM
MW-3	7-17	NM	68.59	NM
MW-4	7-17	NM	67.95	NM
MW-5	5-15	NM	71.78	NM
MW-6	5-15	NM	71.47	NM
MW-7	5-15	NM	71.27	NM
MW-8	5-15	NM	70.90	NM
MW-9	5-15	NM	70.70	NM
MW-10	5-15	NM	66.65	NM
MW-11	5-15	NM	67.16	NM
MW-12	5-15	NM	67.18	NM
MW-13	5-15	NM	68.50	NM
MW-14	5-15	NM	70.14	NM
MW-15	10-20	NM	70.01	NM
MW-16	10-20	NM	71.65	NM
MW-17	4-14	3.20	68.16	64.96
DW-1	35-40	NM	70.95	NM
DW-2	35-40	NM	70.89	NM
DW-3	35-40	NM	67.20	NM
DW-4	33-38	NM	67.51	NM
DW-5	33-38	NM	70.02	NM
DW-6	31-36	NM	71.41	NM
DW-7	31-36	NM	69.82	NM
DW-8	35-40	11.30	67.83	56.53

Notes: Depth to groundwater measured on March 10, 2016.

Site Datum Based on Assumed Spot Elevation.

NM = Not Measured

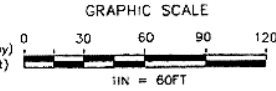
Drawing Based on MECI Field Notes, Tax Maps, RLS Survey of the Site by Jay S. Joshi dated December 7, 2011, and Figure 2 by Crawford Environmental Services.

**Potentiometric Data Site Map**

Steady Simmons  
16661 Grays Highway  
Early Branch, South Carolina  
SCDHEC Site ID 18856

**Midlands Environmental Consultants, Inc.**

JOB NO. 16-5552  
DATE November 15, 2016  
FIGURE 5



ALL LOCATIONS ARE APPROXIMATE



JAN 16 2019



MR BRYAN SHANE PG  
MIDLANDS ENVIRONMENTAL CONSULTANTS  
PO BOX 854  
LEXINGTON SC 29071

Re: **Notice to Proceed-Site Specific Work Plan Approval**  
Groundwater Sampling Contract  
Solicitation #IFB-5400012906, PO #4600680011  
Steady Simmons, 16661 Grays Highway, Early Branch, SC  
UST Permit #18856; MECI CA#58462; PACE CA#58463  
Jasper County

Dear Mr. Shane:

In accordance with bid solicitation #IFB-5400012906 and the Underground Storage Tank (UST) Management Division Quality Assurance Program Plan (QAPP), the Site-Specific Work Plan has been reviewed and approved. In accordance with the approved QAPP, a status report of the project should be provided on a weekly basis via e-mail. If any quality assurance problems arise, you must contact me within 24 hours via phone or e-mail. In addition, a discussion of the problem(s) encountered, including quality assurance problems, the actions taken, and the results must be included in the final report submitted to the UST Management Division.

MECI will perform services at the site on behalf of the site's responsible party (RP); however, payment will be made from the SUPERB Account. Please coordinate access to the facility with the property owner. DHEC grants pre-approval for transportation of virgin petroleum impacted soil and groundwater from the referenced site to a permitted treatment facility. There can be no spillage or leakage in transport. All investigation-derived waste (IDW) must be properly contained and labeled prior to disposal. A copy of the disposal manifest and/or acceptance letter from the receiving facility that clearly designates the quantity received must be included with the final report. The SUPERB Account will not reimburse for transportation or treatment of soil and/or groundwater with concentrations below RBSLs.

**Please note, sampling should be conducted within 15 calendar days from the date of this letter. The final report is due within 3 weeks from the date the site is sampled. If the site is not sampled by the specified due date or the report is not received in the specified time period, a late fee may be imposed.** The final report should contain the requirements of Section III.2.15 of the bid solicitation. The final report should be submitted to Robert Dunn, the contract manager.

If you have any site-specific questions, please contact me at (803) 898-0606 or via e-mail at [butlerkh@dhec.sc.gov](mailto:butlerkh@dhec.sc.gov). If you have any contract specific questions, please contact Robert Dunn at (803) 898-0671 or via e-mail at [dunnra@dhec.sc.gov](mailto:dunnra@dhec.sc.gov).

Sincerely,

Kathryn H. Butler, Hydrogeologist  
Corrective Action & Field Support Section  
UST Management Division  
Bureau of Land & Waste Management

enc: Approved Cost Agreement (both CAs)

cc: Trey Carter, Pace Analytical Services, 9800 Kincey Ave, Ste 100, Huntersville, NC, 28078 (w/app. CA)  
Technical Files (w/enc)

**Approved Cost Agreement      58463**

Facility: 18856    STEADY SIMMONS

BUTLERKH

PO Number:

<u>Task / Description</u>	<u>Categories</u>	<u>Item Description</u>	<u>Qty / Pct</u>	<u>Unit Price</u>	<u>Amount</u>
11 ANALYSES					
	GW GROUNDWATER	A2 BTEXNM+OXYGS+1,2-DCA+ETH-8260B	33.0000	\$21.000	693.00
		F1 EDB BY 8011	31.0000	\$18.000	558.00
	WATER DRINKING WATER	L BTEXNM+1,2 DCA (524.2)	12.0000	\$36.000	432.00
		M 7-OXYGENATES & ETHANOL (8260B)	12.0000	\$13.000	156.00
		N EDB (504.1)	11.0000	\$18.000	198.00
		<b>Total Amount</b>			<b>2,037.00</b>

**Approved Cost Agreement      58462**

Facility: 18856    STEADY SIMMONS

BUTLERKH

PO Number:

<u>Task / Description</u>	<u>Categories</u>	<u>Item Description</u>	<u>Qty / Pct</u>	<u>Unit Price</u>	<u>Amount</u>
01 PLAN		A1 SITE SPECIFIC WORK PLAN	1.0000	\$1.000	1.00
04 MOB/DEMOB		B1 PERSONNEL	2.0000	\$1.000	2.00
10 SAMPLE COLLECTION		A1 GROUNDWATER (PURGE)	8.0000	\$36.500	292.00
		C1 WATER SUPPLY	9.0000	\$18.000	162.00
		D1 GROUNDWATER NO PURGE/DUPLICATE	20.0000	\$27.500	550.00
		H1 FIELD BLANK	2.0000	\$1.000	2.00
17 DISPOSAL		AA WASTEWATER	200.0000	\$1.000	200.00
23 EFR		D SITE RECONNAISSANCE	1.0000	\$1.000	1.00
<b>Total Amount</b>					<b>1,210.00</b>



March 25, 2019



Mr. Robert A. Dunn, Hydrogeologist  
Corrective Action Section  
Underground Storage Management Division  
Bureau of Land and Waste Management  
South Carolina Department of Health  
and Environmental Control  
2600 Bull Street  
Columbia, South Carolina 29201

Subject: Report of Groundwater Sampling  
Steady Simmons  
16661 Grays Highway  
Early Branch, South Carolina  
SCDHEC Site ID# 18856, CA # 58462  
MECI Project Number 18-6716  
Certified Site Rehabilitation Contractor UCC-0009



Dear Mr. Dunn,

Midlands Environmental Consultants Inc. (MECI) is pleased to submit the attached Report of Groundwater Sampling for the referenced site. This report describes site activities conducted at the site in general accordance with South Carolina Department of Health and Environmental Control's (SCDHEC) Quality Assurance Program Plan for the Underground Storage Tank Management Division (QAPP).

#### PROJECT INFORMATION

The subject site (Steady Simmons) is located at 16661 Grays Highway, Early Branch, Jasper County, South Carolina. The site currently occupied by a vacant store front and residence. The following table presents Underground Storage Tanks (UST's) which are associated with the subject site:

Tank #	Capacity/Product	In Use/Abandoned	Tank Status
1	1,000 Gal. Gasoline	Abandoned	Removed (7/16/2002)
2	550 Gal. Gasoline	Abandoned	Removed (7/16/2002)

A release of petroleum product was reported to the South Carolina Department of Health and Environmental Control (SCDHEC) in September of 2002 and subsequently confirmed in October of 2002. The release is currently rated a Class 2BB due to water supply wells being located within 1,000' feet of the site.

The above information is based on reports and correspondence obtained from MECI field notes and SCDHEC files.

**MONITORING WELL SAMPLING AND CHEMICAL ANALYSIS**

On March 7, 2019, MECI personnel collected samples from twenty-five (25) monitoring wells, two (2) surface water locales and four (4) water supply wells at the subject site. During sampling activities, water supply wells WSW-6, WSW-7, and WSW-8 were found to be inoperable and were not sampled. Water supply wells WSW-5 and WSW-9 were unable to be sampled, as permission to sample was denied by the owners. Based on the request by SCDHEC personnel, only monitoring wells that were not bracketing the screen were to be purged prior to sample collection. Twenty (20) monitoring wells were purged prior to sample collection.

MECI personnel utilized an electronic water level indicator for water level measurements and an oil/water interface probe for free phase petroleum product level measurements. Purging was completed by bailing at least five well volumes of water from the well, until pH, conductivity, dissolved oxygen and turbidity stabilized, or all water was evacuated from the well, whichever occurred first. Sampling/purging was completed utilizing a prepackaged, clear, disposable polyethylene bailer and nylon rope. A new set of nitrile gloves were worn at each monitoring well, and at all time samples were handled. Field measurements of pH, conductivity, dissolved oxygen, and water temperature were obtained before well sampling process. MECI utilized a YSI Pro20 meter for DO (mg/L) and temperature readings (°C), YSI Pro1030 meter for pH and conductivity (uS) readings and a MicroTPI turbidimeter for turbidity readings (NTU). The attached Field Data Information Sheets presents the results of the field measurements obtained. The wells were sampled in accordance with the most recent revision of SCDHEC’s Quality Assurance Program Plan for the Underground Storage Tank Management Division and the most recent revision MECI’s Standard Operating Procedures.

Groundwater samples obtained were sent to Pace Analytical Services, Inc. of Huntersville, NC (SCDHEC Laboratory Certification #99006001) for analysis.

The following sampling matrix contains well development and requested analyses for each well:

Sample ID	Purge	No Purge	Gauge Only	Low-Flow Sampling	Not Sampled	Not Located	BTEX, Naphthalene, MTBE (EPA Method 8260-B)	EDB (EPA Method 8011)	1,2 DCA (EPA Method 8260-B)	8 Oxygenates (EPA Method 8260-B)	Total Lead (EPA Method 6010)	BTEX, Naphthalene, MTBE, 1,2 DCA (EPA Method 8242)	EDB (EPA Method 504.1)
	Analyte Sampled												
MW-1R	X						X	X	X	X			
MW-2	X						X	X	X	X			
MW-3	X						X	X	X	X			
MW-4	X						X	X	X	X			
MW-5		X					X	X	X	X			
MW-6		X					X	X	X	X			
MW-7	X						X	X	X	X			
MW-8		X					X	X	X	X			
MW-9	X						X	X	X	X			
MW-10	X						X	X	X	X			
MW-11	X						X	X	X	X			
MW-12	X						X	X	X	X			

Notes: BTEX = Benzene, Toluene, Ethylbenzene, & Total Xylenes  
 MTBE = Methyl tertiary butyl ether  
 1,2 DCA = 1,2 Dichloroethane  
 EDB = Ethylene Dibromide



Sample ID	Purge	No Purge	Gauge Only	Low-Flow Sampling	Not Sampled	Not Located	BTEX, Naphthalene, MTBE (EPA Method 8260-B)	EDB (EPA Method 8011)	1,2 DCA (EPA Method 8260-B)	8 Oxygenates (EPA Method 8260-B)	Total Lead (EPA Method 6010)	BTEX, Naphthalene, MTBE, 1,2 DCA (EPA Method 824.2)	EDB (EPA Method 804.1)
Analyte Sampled													
MW-13	X						X	X	X	X			
MW-14		X					X	X	X	X			
MW-15	X						X	X	X	X			
MW-16	X						X	X	X	X			
MW-17		X					X	X	X	X			
DW-1	X						X	X	X	X			
DW-2	X						X	X	X	X			
DW-3	X						X	X	X	X			
DW-4	X						X	X	X	X			
DW-5	X						X	X	X	X			
DW-6	X						X	X	X	X			
DW-7	X						X	X	X	X			
DW-8	X						X	X	X	X			
SW-1		X					X	X	X	X			
SW-2		X					X	X	X	X			
SW-3					X								
DUP-1(MW-10)							X	X	X	X			
DUP-2(MW-14)							X	X	X	X			
Field Blank							X	X	X	X			
Trip Blank 1							X		X	X			
Trip Blank 2							X		X	X			
WSW-1										X		X	X
WSW-2										X		X	X
WSW-3										X		X	X
WSW-4										X		X	X
WSW-5					X								
WSW-6					X								
WSW-7					X								
WSW-8					X								
WSW-9					X								
DUP (WSW-1)										X		X	X
Field Blank										X		X	X
Trip Blank										X		X	X

Notes: BTEX = Benzene, Toluene, Ethylbenzene, & Total Xylenes  
 MTBE = Methyl tertiary butyl ether  
 1,2 DCA = 1,2 Dichloroethane  
 EDB = Ethylene Dibromide

Purge water produced by the purging process was treated on-site utilizing a granular activated carbon unit. A total of 267.75 gallons of purge water was disposed of in this manner. A disposal manifest for the referenced purge water is attached at the end of this report.

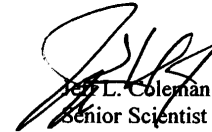
Please feel free to contact us at 803-808-2043 if you have any immediate questions or comments.

Sincerely,  
**Midlands Environmental Consultants, Inc.**



*K.V.* Kyle V. Pudney  
Project Biologist

Attachments:



Jeff L. Coleman  
Senior Scientist

**Contractor Checklist**

Item#	Item	Yes	No	N/A
1	Is Facility Name, Permit #, and address provided?	X		
2	Is UST Owner/Operator name, address, & phone number provided?			X
3	Is name, address, & phone number of current property owner provided?			X
4	Is the DHEC Certified UST Site Rehabilitation Contractor's Name, Address, telephone number, and certification number provided?	X		
5	Is the name, address, telephone number, and certification number of the well driller that installed borings/monitoring wells provided?			X
6	Is the name, address, telephone number, and certification number of the certified laboratory(ies) performing analytical analyses provided?	X		
7	Has the facility history been summarized?	X		
8	Has the regional geology and hydrogeology been described?			X
9	Are the receptor survey results provided as required?			X
10	Has current use of the site and adjacent land been described?			X
11	Has the site-specific geology and hydrogeology been described?			X
12	Has the primary soil type been described?			X
13	Have field screening results been described?			X
14	Has a description of the soil sample collection and preservation been detailed?			X
15	Has the field screening methodology and procedure been detailed?			X
16	Has the monitoring well installation and development dates been provided?			X
17	Has the method of well development been detailed?			X
18	Has justification been provided for the locations of the monitoring wells?			X
19	Have the monitoring wells been labeled in accordance with the UST QAPP guidelines?			X
20	Has the groundwater sampling methodology been detailed? See MECI SOP	X		
21	Have the groundwater sampling dates and groundwater measurements been provided? See attached Site Activity Summary Sheet	X		
22	Has the purging methodology been detailed? See MECI SOP	X		
23	Has the volume of water purged from each well been provided along with measurements to verify that purging is complete? See attached Field Data Information Sheets	X		
24	If free-product is present, has the thickness been provided? See attached Site Activity Summary Sheets	X		
25	Does the report include a brief discussion of the assessment done and the results?			X
26	Does the report include a brief discussion of the aquifer evaluation and results?			X
27	Does the report include a brief discussion of the fate & transport models used?			X

Item#	Item	Yes	No	N/A
28	Are the site-conceptual model tables included? (Tier 1 Risk Evaluation)			X
29	Have the exposure pathways been analyzed? (Tier 2 Risk Evaluation)			X
30	Have the SSTLs for each compound and pathway been calculated? (Tier 2 Risk Evaluation)			X
31	Have recommendations for further action been provided and explained?			X
32	Has the soil analytical data for the site been provided in tabular format? (Table 1)			X
33	Has the potentiometric data for the site been provided in tabular format? (Table 2)			X
34	Has the current and historical laboratory data been provided in tabular format?			X
35	Have the aquifer characteristics been provided and summarized on the appropriate form?			X
36	Have the Site conceptual model tables been included? (Tier 1 Risk Evaluation)			X
37	Has the topographic map been provided with all required elements? (Figure 1)	X		
38	Has the site base map been provided with all required elements? (Figure 2)	X		
39	Have the CoC site maps been provided? (Figure 3 & Figure 4)			X
40	Has the site potentiometric map been provided? (Figure 5)			X
41	Have the geologic cross-sections been provided? (Figure 6)			X
42	Have maps showing the predicted migration of the CoCs through time been provided? (Tier 2 Risk Evaluation)			X
43	Has the site survey been provided and include all necessary elements? (Appendix A)			X
44	Have the sampling logs, chain of custody forms, and the analytical data package been included with all required elements? (Appendix B)	X		
45	Is the laboratory performing the analyses properly certified?	X		
46	Has the tax map been included with all necessary elements? (Appendix C)			X
47	Have the soil boring/field screening logs been provided? (Appendix D)			X
48	Have the well completion logs and SCDHEC Form 1903 been provided? (Appendix E)			X
49	Have the aquifer evaluation forms, data, graphs, equations, etc. been provided? (Appendix F)			X
50	Have the disposal manifests been provided? See attached	X		
51	Has a copy of the local zoning regulations been provided? (Appendix H)			X
52	Has all fate and transport modeling been provided? (Appendix I)			X
53	Have copies of all access agreements obtained by the contractor been provided? (Appendix J)			X
54	Has a copy of this form been attached to the final report and are explanations for any missing or incomplete data been provided?	X		

## Site Activity Summary

**UST Permit #:** 18856  
**Facility Name:** Steady Simmons  
**County:** Jasper  
**Field Personnel:** J. Phillips, B. Powers, S. Sprott


**Midlands  
Environmental  
Consultants, Inc.**  
 231 Dooley Road, Lexington, SC 29073  
 (803) 808-2043 Fax: 808-2048

Sample ID	Sampled?	Date	Time	Screened Interval	Depth to Product (ft)	Depth to Water (ft)	Product Thickness (ft)	Initial Dissolved Oxygen (mg/l)	# Gals. Purged	Comments
MW-1R	Y	3/7/19	13:37	7-17	***	3.16	***	2.88	11.50	Odor
MW-2	Y	3/7/19	13:19	7-17	***	4.81	***	2.18	10.00	Odor
MW-3	Y	3/7/19	12:39	7-17	***	3.32	***	2.89	11.25	No Odor
MW-4	Y	3/7/19	10:36	7-17	***	2.85	***	4.17	11.75	No Odor
MW-5	Y	3/7/19	11:32	5-15	***	5.94	***	3.14	0.00	No Odor
MW-6	Y	3/7/19	11:24	5-15	***	5.61	***	3.29	0.00	No Odor
MW-7	Y	3/7/19	11:17	5-15	***	4.49	***	3.18	8.75	No Odor
MW-8	Y	3/7/19	10:58	5-15	***	5.60	***	3.27	0.00	No Odor
MW-9	Y	3/7/19	10:30	5-15	***	3.83	***	3.75	9.25	No Odor
MW-10	Y	3/7/19	12:19	5-15	***	1.43	***	2.63	11.25	No Odor
MW-11	Y	3/7/19	11:39	5-15	***	2.00	***	3.36	10.75	No Odor
MW-12	Y	3/7/19	11:07	5-15	***	2.28	***	3.26	10.50	No Odor
MW-13	Y	3/7/19	10:51	5-15	***	3.14	***	4.01	9.75	No Odor
MW-14	Y	3/7/19	12:35	5-15	***	5.03	***	3.32	0.00	No Odor
MW-15	Y	3/7/19	12:59	10-20	***	4.67	***	3.55	12.75	No Odor
									117.50	<b>TOTAL GALLONS PURGED</b>

## Site Activity Summary

**UST Permit #:** 18856  
**Facility Name:** Steady Simmons  
**County:** Jasper  
**Field Personnel:** J. Phillips, B. Powers, S. Sprott


**Midlands  
Environmental  
Consultants, Inc.**  
 231 Dooley Road, Lexington, SC 29073  
 (803) 808-2043 Fax: 808-2048

Sample ID	Sampled?	Date	Time	Screened Interval	Depth to Product (ft)	Depth to Water (ft)	Product Thickness (ft)	Initial Dissolved Oxygen (mg/l)	# Gals. Purged	Comments
MW-16	Y	3/7/19	11:55	10-20	***	5.90	***	2.85	11.50	No Odor
MW-17	Y	3/7/19	10:18	4-14	***	4.07	***	3.44	0.00	No Odor
DW-1	Y	3/7/19	10:51	35-40	***	6.16	***	3.55	9.00	No Odor
DW-2	Y	3/7/19	10:14	35-40	***	6.64	***	4.27	12.00	No Odor
DW-3	Y	3/7/19	12:03	35-40	***	2.86	***	3.21	15.00	No Odor
DW-4	Y	3/7/19	11:22	33-38	***	13.09	***	3.10	7.50	No Odor
DW-5	Y	3/7/19	13:20	33-38	***	4.84	***	2.89	12.50	No Odor
DW-6	Y	3/7/19	12:31	31-36	***	6.06	***	2.82	20.00	No Odor
DW-7	Y	3/7/19	13:04	31-36	***	4.72	***	3.20	20.00	No Odor
DW-8	Y	3/7/19	10:12	35-40	***	13.05	***	7.18	10.50	No Odor
SW-1	Y	3/7/19	13:27	***	***	***	***	***	***	Collected from pond, See Figure
SW-2	Y	3/7/19	13:29	***	***	***	***	***	***	Collected from pond, 16743 Grays Highway
SW-3	N	3/7/19	NS	***	***	***	***	***	***	Could not access
DUP-1	Y	3/7/19	12:19	***	***	***	***	***	***	Duplicate of MW-10
DUP-2	Y	3/7/19	12:35	***	***	***	***	***	***	Duplicate of MW-14
									118.00	<b>TOTAL GALLONS PURGED</b>

## Site Activity Summary

**UST Permit #:** 18856  
**Facility Name:** Steady Simmons  
**County:** Jasper  
**Field Personnel:** J. Phillips, B. Powers, S. Sprott


**Midlands  
Environmental  
Consultants, Inc.**  
 231 Dooley Road, Lexington, SC 29073  
 (803) 808-2043 Fax: 808-2048

Sample ID	Sampled?	Date	Time	Screened Interval	Depth to Product (ft)	Depth to Water (ft)	Product Thickness (ft)	Initial Dissolved Oxygen (mg/l)	# Gals. Purged	Comments
Field Blank	Y	3/7/19	13:35	***	***	***	***	***	***	Field Blank
Trip Blank 1	Y	3/7/19	13:35	***	***	***	***	***	***	Trip Blank (Cooler #1)
Trip Blank 2	Y	3/7/19	13:35	***	***	***	***	***	***	Trip Blank (Cooler #2)
WSW-1	Y	3/7/19	13:45	***	***	***	***	***	***	Sample Taken From Spigot on Well, White Trailer on Onsite
WSW-2	Y	3/7/19	13:50	***	***	***	***	***	***	Sample Taken From Spigot outside well house, 16589 Grays Highway
WSW-3	Y	3/7/19	13:52	***	***	***	***	***	***	Sample Taken From Spigot in front yard, 16586 Grays Highway
WSW-4	Y	3/7/19	13:55	***	***	***	***	***	***	Sample Taken From Spigot in Front of house, 16640 Grays Highway
WSW-5	N	3/7/19	NS	***	***	***	***	***	***	Access denied
WSW-6	N	3/7/19	NS	***	***	***	***	***	***	Not Operational, Onsite
WSW-7	N	3/7/19	NS	***	***	***	***	***	***	Well not operational; House no longer at property; Well possibly abandoned
WSW-8	N	3/7/19	NS	***	***	***	***	***	***	Not Operational/No Resident, 16713 Gray Highway
WSW-9	N	3/7/19	NS	***	***	***	***	***	***	Access denied
WSW-DUP	Y	3/7/19	13:45	***	***	***	***	***	***	Duplicate Sample of WSW-1
Field Blank WSW	Y	3/7/19	13:38	***	***	***	***	***	***	Field Blank WSW
Trip Blank WSW	Y	3/7/19	13:39	***	***	***	***	***	***	Trip Blank WSW
									0.00	<b>TOTAL GALLONS PURGED</b>

# Monitoring Well Purge And Sampling Data

Field Personnel: JP, BD, SS  
 Sampling Date(s): 3/7/19  
 Sampling Case#: 2

Job Name: Steady Simmons  
 Job Number: 18-6716

Calibration Data for:  
 Calibration Successful? Yes or No (Please Circle)  
 pH: Yes No  
 Conductivity: Yes No  
 Dissolved Oxygen: Yes No  
 Turbidity: Conductivity Calibrated Every 3 Months by QA Manager

Well No.	Purge Volume	Sample Time	pH(i)	cond(i)	Temp. (°C)	DO (mg/l)	Turbidity (NTU)	Depth to (feet):			Well Depth (feet)	Water Height (feet)	Gallons Purged		Notes
								product	Initial H <sub>2</sub> O	final H <sub>2</sub> O			**calc.	actual	
MW-1R	Initial	13:25	6.01	70.6	17.6	2.58	31.97	3.16	7-17	13.84	2.26	Purged All	11.5	Odor	
	1st	13:27	6.15	72.9	17.9	2.75	57.14								
	2nd	13:29	6.17	73.6	18.0	2.73	67.22								
	3rd	13:31	6.22	74.2	18.0	2.70	90.85								
	4th	13:34	6.23	74.7	18.1	2.68	67.31								
	5th	13:37	6.23	75.2	18.2	2.67	46.83								
	Sampling														
MW-2	Initial	13:09	6.21	56.8	18.9	2.18	26.53	4.81	7-17	12.19	1.99	Purged All	10	Odor	
	1st	13:11	6.10	62.9	19.0	2.11	47.94								
	2nd	13:13	6.06	64.7	19.1	2.08	89.56								
	3rd	13:15	6.05	68.3	19.2	2.01	103.4								
	4th	13:17	6.04	71.2	19.3	1.97	65.18								
	5th	13:19	6.03	72.9	19.4	1.94	53.24								
	Sampling														
MW-3	Initial	12:24	6.31	40.4	16.8	2.89	39.24	3.32	7-17	13.68	2.23	Purged All	11.25	No Odor	
	1st	12:31	6.37	42.2	17.5	2.86	73.90								
	2nd	12:33	6.39	43.8	17.6	2.83	112.4								
	3rd	12:35	6.41	44.1	17.6	2.78	90.30								
	4th	12:37	6.43	44.4	17.7	2.74	84.28								
	5th	12:39	6.45	44.8	17.8	2.69	60.75								
	Sampling														
MW-4	Initial	10:26	7.35	107.8	16.5	4.17	21.48	2.85	7-17	14.15	2.31	Purged All	11.75	No Odor	
	1st	10:28	7.29	105.1	16.8	4.12	49.87								
	2nd	10:30	7.24	103.7	16.9	4.05	83.49								
	3rd	10:32	7.20	100.9	17.0	3.97	64.20								
	4th	10:34	7.13	100.3	17.0	3.92	52.13								
	5th	10:36	7.10	98.6	17.1	3.85	41.22								
	Sampling														

\*= (Depth of Well) - (Depth to Water = Water Height)  
 One Well Volume = x.047 for 1" wells \* x .163 for 2" wells, or \* x .66 for 4" wells, 1.469 for 6" wells  
 \*\*= One Well Volume x 5 = Gallons Purged (calculated)

Casing	Gallons
1"	0.047
2"	0.163
4"	0.653
6"	1.469

Sampling Case#	Ph/Conductance SN	DO SN	Turbidity
Case #1	15H101448	17E101302	201301183
Case #2	15E101481	14H103098	201301174
Case #3	17E100512	17E103488	201510251



# Monitoring Well Purge And Sampling Data

Field Personnel: JP, BP, SS  
 Sampling Date(s): 3/7/19  
 Sampling Case#: 2

Job Name: Steady Simmons  
 Job Number: 18-6716

Calibration Data for:  
 Calibration Successful? Yes or No (Please Circle)  
 pH: Yes No  
 Conductivity: Yes No  
 Dissolved Oxygen: Yes No  
 Turbidity: Conductivity Calibrated Every 3 Months by QA Manager

Well No.	Purge Volume	Sample Time	pH(l)	cond(l)	Temp. (°C)	DO (mg/l)	Turbidity (NTU)	Depth to (feet):			Well Depth (feet)	Water Height *(feet)	Gallons Purged		Notes
								product	Initial H <sub>2</sub> O	final H <sub>2</sub> O			**calc.	actual	
MW-5	Initial	11:32	6.32	57.9	16.9	3.14	18.27				5-15	-	-	-	No odor
	1st														
	2nd														
	3rd														
	4th														
	5th														
MW-6	Initial	11:24	6.54	50.2	16.6	3.29	30.64				5-15	-	-	-	No odor
	1st														
	2nd														
	3rd														
	4th														
	5th														
MW-7	Initial	11:07	6.77	48.1	15.9	3.18	24.77				5-15	10.51	1.71	8.75	Purged All No odor
	1st	11:09	6.72	46.2	16.8	3.06	64.82								
	2nd	11:11	6:70	45.8	16.9	2.97	92.91								
	3rd	11:13	6:66	44.4	17.0	2.94	73.94								
	4th	11:15	6:59	43.7	17.2	2.89	50.26								
	5th	11:17	6:46	42.9	17.3	2.84	35.94								
MW-8	Initial	10:58	6.88	60.2	16.7	3.27	24.98				5-15	-	-	-	No odor
	1st														
	2nd														
	3rd														
	4th														
	5th														

\* = (Depth of Well) - (Depth to Water = Water Height)  
 One Well Volume = x.047 for 1" wells \* x .163 for 2" wells, or \* x .66 for 4" wells, 1.469 for 6" wells  
 \*\* = One Well Volume x 5 = Gallons Purged (calculated)

Casing	Gallons
1"	0.047
2"	0.163
4"	0.653
6"	1.469

Sampling Case#	PV Conductance SN	DO SN	Turbidity
Case #1	15H101448	17E101302	201301183
Case #2	15E101481	14H103098	201301174
Case #3	17E100512	17E103488	201510251

# Monitoring Well Purge And Sampling Data

Field Personnel: JP, BP, SS  
 Sampling Date(s): 3/7/19  
 Sampling Case#: 2

Job Name: Steady Simmons  
 Job Number: 18-6716

Calibration Data for:  
 Calibration Successful? Yes or No (Please Circle)  
 pH: Yes No  
 Conductivity: Yes No  
 Dissolved Oxygen: Yes No  
 Turbidity: Conductivity Calibrated Every 3 Months by QA Manager

Well No.	Purge Volume	Sample Time	pH(l)	cond(l)	Temp. (°C)	DO (mg/l)	Turbidity (NTU)	Depth to (feet):			Well Depth (feet)	Water Height (feet)	Gallons Purged		Notes
								product	Initial H <sub>2</sub> O	final H <sub>2</sub> O			**calc.	actual	
MW-9	Initial	10:20	7.47	71.8	15.7	3.75	27.93								
	1st	10:22	7.47	70.2	15.8	3.63	45.76								
	2nd	10:24	7.38	68.3	15.9	3.57	62.94								
	3rd	10:26	7.35	65.1	15.9	3.52	80.11								
	4th	10:28	7.33	64.6	16.0	3.50	87.14								
	5th	10:30	7.32	63.1	16.0	3.44	40.79								
	Sampling														
								3.83			5-15	11.17	1.82	Purged All	No odor
													9.10	9.25	
MW-10	Initial	12:09	6.33	61.7	16.8	2.63	52.36								
	1st	12:11	6.28	57.3	17.2	2.42	91.29								
	2nd	12:13	6.27	56.8	17.5	2.37	106.2								
	3rd	12:15	6.24	56.1	17.6	2.34	94.37								
	4th	12:17	6.19	55.6	17.8	2.30	66.92								
	5th	12:19	6.16	55.2	17.9	2.29	40.76								
	Sampling														
								1.43			5-15	13.57	2.21	Purged All	No odor
													11.06	11.28	Dupl
MW-11	Initial	11:29	6.42	92.2	16.1	3.36	46.57								
	1st	11:31	6.37	91.9	16.7	3.35	84.39								
	2nd	11:33	6.35	91.3	16.9	3.34	101.2								
	3rd	11:35	6.34	89.4	17.0	3.30	80.73								
	4th	11:37	6.33	87.2	17.3	3.27	52.62								
	5th	11:39	6.30	86.5	17.5	3.24	40.10								
	Sampling														
								2.00			5-15	13.00	2.12	Purged All	No odor
													10.60	10.75	
MW-12	Initial	10:57	6.48	86.5	16.2	3.26	26.38								
	1st	10:59	6.44	89.7	17.5	3.20	47.36								
	2nd	11:01	6.41	90.3	17.6	3.16	62.41								
	3rd	11:03	6.39	91.6	17.8	3.04	74.39								
	4th	11:05	6.37	92.0	17.9	3.02	50.44								
	5th	11:07	6.34	92.3	18.0	2.99	41.29								
	Sampling														
								2.28			5-15	12.72	2.07	Purged All	No odor
													10.37	10.5	

\*= (Depth of Well) - (Depth to Water) = Water Height  
 \*\*= One Well Volume x 5 = Gallons Purged (calculated)  
 One Well Volume = x.047 for 1" wells \* x .163 for 2" wells, or \* x .66 for 4" wells, 1.469 for 6" wells

Casing	Gallons
1"	0.047
2"	0.163
4"	0.653
6"	1.469

Sampling Case#	PW/Conductance SN	DO SN	Turbidity
Case #1	15H101448	17E101302	201301183
Case #2	15E101481	14H103098	201301174
Case #3	17E100512	17E103488	201510251



# Monitoring Well Purge And Sampling Data

Field Personnel: JP, BP, SS  
 Sampling Date(s): 3/7/19  
 Sampling Case#: 2

Job Name: Steady Simmons  
 Job Number: 16-6716

Calibration Data for :  
 Calibration Successful? Yes or No (Please Circle)  
 pH: Yes No  
 Conductivity: Yes No  
 Dissolved Oxygen: Yes No  
 Turbidity: Conductivity Calibrated Every 3 Months by QA Manager

Well No.	Purge Volume	Sample Time	pH(l)	cond(l)	Temp. (°C)	DO (mg/l)	Turbidity (NTU)	Depth to (feet):			Well Depth (feet)	Water Height *(feet)	Gallons Purged		Notes	
								product	Initial H <sub>2</sub> O	final H <sub>2</sub> O			**calc.	actual		
MW-13	Initial	10:41	7.12	124.6	16.6	4.01	20.33				3.14	5-15	11.86	1.93	Purged All	No Odor
	1st	10:43	7.01	121.8	16.8	3.97	37.94									
	2nd	10:45	6.98	120.3	16.9	3.92	49.15									
	3rd	10:47	6.94	115.2	17.0	3.84	66.69									
	4th	10:49	6.47	108.6	17.3	3.80	48.02									
	5th	10:51	6.82	102.1	17.3	3.73	39.36									
	Sampling															
MW-14	Initial	12:35	6.19	87.2	18.0	3.32	25.54				5.03	5-15	-	-	-	No Odor
	1st															
	2nd															
	3rd															
	4th															
	5th															
	Sampling															
MW-15	Initial	12:44	6.18	142.7	18.1	3.55	31.66				4.67	10-20	15.33	2.54	Purged All	No Odor
	1st	12:47	6.22	150.4	18.5	3.52	47.98									
	2nd	12:50	6.24	154.7	18.6	3.49	62.72									
	3rd	12:53	6.27	156.8	18.7	3.44	86.99									
	4th	12:56	6.30	159.1	18.8	3.40	73.51									
	5th	12:59	6.33	159.5	18.9	3.36	40.88									
	Sampling															
MW-16	Initial	11:40	6.43	34.7	17.7	2.85	33.82				5.90	10-20	141.10	2.30	Purged All	No Odor
	1st	11:43	6.50	39.8	18.0	2.92	64.42									
	2nd	11:46	6.52	40.6	18.1	2.96	88.18									
	3rd	11:49	6.55	41.2	18.1	2.99	72.21									
	4th	11:52	6.58	42.3	18.2	3.01	60.11									
	5th	11:55	6.59	42.8	18.2	3.03	45.70									
	Sampling															

\*= (Depth of Well) - (Depth to Water = Water Height)  
 One Well Volume = x.047 for 1" wells \* x .163 for 2" wells, or \* x .66 for 4" wells, 1.469 for 6" wells  
 \*\*= One Well Volume x 5 = Gallons Purged (calculated)

Casing	Gallons
1"	0.047
2"	0.163
4"	0.653
6"	1.469

Sampling Case#	PhyConductance SN	DO SN	Turbidity
Case #1	15H101448	17E101302	201301183
Case #2	15E101481	14H103098	201301174
Case #3	17E100512	17E103488	201510251

# Monitoring Well Purge And Sampling Data

Field Personnel: JP, BD, SS  
 Sampling Date(s): 3/7/19  
 Sampling Case#: 2

Job Name: Steady Simmons  
 Job Number: 16-6716

Calibration Data for:  
 Calibration Successful? Yes or No (Please Circle)  
 pH: Yes No  
 Conductivity: Yes No  
 Dissolved Oxygen: Yes No  
 Turbidity: Conductivity Calibrated Every 3 Months by QA Manager

Well No.	Purge Volume	Sample Time	pH(l)	cond(l)	Temp. (°C)	DO (mg/l)	Turbidity (NTU)	Depth to (feet):			Well Depth (feet)	Water Height *(feet)	Gallons Purged		Notes
								product	Initial H <sub>2</sub> O	final H <sub>2</sub> O			**calc.	actual	
MW-17	Initial	10:14	7.70	55.2	16.2	3.44	25.76								No odor
	1st														
	2nd														
	3rd														
	4th														
	5th														
DW-1	Initial	10:34	7.09	63.2	16.7	3.55	39.29								No odor
	1st	10:44	7.15	66.9	18.0	3.46	77.17								
	2nd														
	3rd														
	4th														
	5th														
DW-2	Initial	10:51	7.17	67.4	18.1	3.42	52.16								No odor
	1st	9:57	8.13	64.9	17.6	4.27	32.62								
	2nd	10:02	8.18	67.6	18.8	3.64	62.15								
	3rd	10:08	8.21	69.4	19.1	3.41	79.96								
	4th														
	5th														
DW-3	Initial	10:14	8.22	70.9	19.2	3.34	60.97								No odor
	1st	11:44	6.60	75.2	16.2	3.21	19.73								
	2nd	11:50	6.64	77.7	17.8	3.13	27.38								
	3rd	11:56	6.66	79.8	18.0	3.09	34.67								
	4th														
	5th														
	Sampling	12:03	6.69	83.4	18.2	3.04	29.18								

\* = (Depth of Well) - (Depth to Water = Water Height)  
 One Well Volume = x.047 for 1" wells \* x .163 for 2" wells, or \* x .66 for 4" wells, 1.469 for 6" wells  
 \*\* = One Well Volume x 5 = Gallons Purged (calculated)

Casing	Gallons
1"	0.047
2"	0.163
4"	0.653
6"	1.469

Sampling Case#	pH/Conductance SN	DO SN	Turbidity
Case #1	15H101448	17E101302	201301183
Case #2	15E101481	14H103098	201301174
Case #3	17E100512	17E103488	201510251

# Monitoring Well Purge And Sampling Data

Field Personnel: JP, BP, SS  
 Sampling Date(s): 3/7/19  
 Sampling Case#: 2

Job Name: Steady Simmons  
 Job Number: 18-6716

Calibration Data for:  
 Calibration Successful? Yes or No (Please Circle)  
 pH: Yes No  
 Conductivity: Yes No  
 Dissolved Oxygen: Yes No  
 Turbidity: Conductivity Calibrated Every 3 Months by QA Manager

Well No.	Purge Volume	Sample Time	pH(l)	cond(l)	Temp. (°C)	DO (mg/l)	Turbidity (NTU)	Depth to (feet):			Well Depth (feet)	Water Height *(feet)	Gallons Purged		Notes
								product	Initial H <sub>2</sub> O	final H <sub>2</sub> O			**calc.	actual	
DW-4	Initial	11:13	6.91	75.4	19.2	3.10	22.29	13.09		33-38	24.91	4.06	Dry @	No Odor	
	1st	11:17	6.99	79.7	19.7	2.98	45.59								
	2nd														
	3rd														
	4th														
	5th														
Sampling	11:22	7.03	80.4	20.0	2.93	27.86					20.30	7.5			
DW-5	Initial	13:05	6.48	45.3	18.7	2.89	19.94	4.84		33-38	33.16	5.41	Dry @	No Odor	
	1st	13:10	6.32	42.8	19.6	2.74	29.73								
	2nd	13:15	6.29	43.1	19.8	2.69	44.81								
	3rd														
	4th														
	5th														
Sampling	13:20	6.27	42.9	20.0	2.64	25.63					27.03	12.5			
DW-6	Initial	12:03	6.32	35.7	17.8	2.82	19.18	6.06		31-36	29.94	4.88	Dry @	No Odor	
	1st	12:08	6.40	42.4	18.1	2.79	54.96								
	2nd	12:13	6.42	45.7	18.2	2.73	72.15								
	3rd	12:18	6.43	47.9	18.3	2.69	80.38								
	4th	12:23	6.48	50.1	18.4	2.64	92.41								
	5th														
Sampling	12:31	6.49	50.4	18.5	2.60	64.29					24.40	20 Gallons			
DW-7	Initial	12:43	6.55	72.3	18.3	3.20	18.39	4.72		31-36	31.28	5.10	Dry @	No Odor	
	1st	12:48	6.49	70.1	18.5	3.12	29.76								
	2nd	12:53	6.45	69.2	18.7	3.05	35.13								
	3rd	12:58	6.43	68.7	18.9	3.00	44.11								
	4th														
	5th														
Sampling	13:04	6.41	65.4	18.9	2.97	24.16					25.49	20			

\*= (Depth of Well) - (Depth to Water) = Water Height  
 One Well Volume = x.047 for 1" wells \* x.163 for 2" wells, or \* x.66 for 4" wells, 1.469 for 6" wells  
 \*\*= One Well Volume x 5 = Gallons Purged (calculated)

Casing	Gallons
1"	0.047
2"	0.163
4"	0.653
6"	1.469

Sampling Case#	PH/Conductance SN	DO SN	Turbidity
Case #1	15H101448	17E101302	201301183
Case #2	15E101481	14H103098	201301174
Case #3	17E100512	17E103488	201510251

# Monitoring Well Purge And Sampling Data

Field Personnel: JP, BP, SS  
 Sampling Date(s): 3/7/19  
 Sampling Case#: 2

Job Name: Steady Simmons  
 Job Number: 16-6716

Calibration Data for:  
 Calibration Successful? Yes or No (Please Circle)  
 pH: Yes No  
 Conductivity: Yes No  
 Dissolved Oxygen: Yes No  
 Turbidity: Conductivity Calibrated Every 3 Months by QA Manager

Well No.	Purge Volume	Sample Time	pH(l)	cond(l)	Temp. (°C)	DO (mg/l)	Turbidity (NTU)	Depth to (feet):			Well Depth (feet)	Water Height *(feet)	Gallons Purged		Notes
								product	Initial H <sub>2</sub> O	final H <sub>2</sub> O			**calc.	actual	
DW-6	Initial	9:58	7.98	135.4	16.4	7.19	20.91								
	1st	10:03	8.03	140.7	19.0	5.21	36.98								
	2nd	10:08	8.06	144.2	14.3	4.94	48.50								
	3rd														
	4th														
	5th														
	Sampling	10:12	8.08	142.6	19.4	4.76	32.79								
SW-1	Initial	13:27													
SW-2	1st														
	2nd	13:29													
	3rd														
SW-3	4th														
	5th	Denied Access													
	Sampling														
Dup1	Initial	12:19	MW-10												
	1st														
Dup2	2nd	12:33	MW-14												
	3rd														
	4th														
FB	5th	13:35													
	Sampling														
TB-1 TB-2	Initial	13:35													
	1st														
	2nd														
	3rd	13:35													
	4th														
	5th														
Sampling															

\* = (Depth of Well) - (Depth to Water) = Water Height  
 \*\* = One Well Volume x 5 = Gallons Purged (calculated)  
 One Well Volume = x.047 for 1" wells \* x .163 for 2" wells, or \* x .66 for 4" wells, 1.469 for 6" wells

Casing	Gallons
1"	0.047
2"	0.163
4"	0.653
6"	1.469

Sampling Case#	PH/Conductance SN	DO SN	Turbidity
Case #1	15H101448	17E101302	201301183
Case #2	15E101481	14H103098	201301174
Case #3	17E100512	17E103488	201510251

## Monitoring Well Purge And Sampling Data

Field Personnel: JP, BP, SS  
 Sampling Date(s): 3/7/19  
 Sampling Case#: 2

Job Name: Steady Simmons  
 Job Number: 18-6716

Calibration Data for:  
 Calibration Successful? Yes or No (Please Circle)  
 pH: Yes No  
 Conductivity: Yes No  
 Dissolved Oxygen: Yes No  
 Turbidity: Conductivity Calibrated Every 3 Months by QA Manager

Well No.	Purge Volume	Sample Time	pH(l)	cond(l)	Temp. (°C)	DO (mg/l)	Turbidity (NTU)	Depth to (feet):			Well Depth (feet)	Water Height *(feet)	Gallons Purged		Notes
								product	Initial H <sub>2</sub> O	final H <sub>2</sub> O			**calc.	actual	
WSW-1	Initial	On Site													
WSW-2	1st	16589 Grays Hwy				13:45 - Spigot on well /									Dupl
	2nd														
	3rd														
WSW-3	4th	16586 Grays Hwy				13:50 - Spigot on outside of well-house									
	5th														
	Sampling														
WSW-4	Initial	16640 Grays Hwy				13:52 - spigot in front yard.									
	1st														
WSW-5	2nd	Access Denied				13:55 - spigot on front of house									
	3rd														
	4th														
WSW-6	5th	Not Active / Abandoned Home													
	Sampling														
	Initial														
WSW-7	1st	Not Active / No house													
	2nd														
WSW-8	3rd	Not Active													
	4th														
	5th														
WSW-9	Sampling	Access Denied													
	Initial														
WSW-Dur	Initial	13:45	WSW-1												
WSW-FB	1st	13:38													
	2nd														
	3rd														
	4th														
WSW-TB	5th	13:39													
	Sampling														
	Initial														

\* = (Depth of Well) - (Depth to Water) = Water Height  
 One Well Volume = x.047 for 1" wells \* x.163 for 2" wells, or \* x.66 for 4" wells, 1.469 for 6" wells  
 \*\* = One Well Volume x 5 = Gallons Purged (calculated)

Casing	Gallons
1"	0.047
2"	0.163
4"	0.653
6"	1.469

Sampling Case#	pH/Conductance SN	DO SN	Turbidity
Case #1	15H101448	17E101302	201301183
Case #2	15E101481	14H103098	201301174
Case #3	17E100512	17E103488	201510251



# CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY: Affix Workorder/Login Label Here or List Pace Workorder Number or MTJL Log-in Number Here

Company: **SCDHEC** Billing Information:

Address: **2600 Bull St. Columbia SC**

Report To: **R. Dunn** Email To: **dunnra@dhec.sc.gov**

Copy To:

Customer Project Name/Number: **Steady Simmons** State: **SC** County/City: **Jasper** Time Zone Collected: **[ ] PT [ ] MT [ ] CT [ ] ET**

## ALL SHADED AREAS are for LAB USE ONLY

Container Preservative Type \*\*

Lab Project Manager:

\*\* Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other

Phone: Site/Facility ID #: **18856** Compliance Monitoring?  Yes  No

Collected By (print): **Shawn Spratt** Purchase Order #: Quote #: DW PWS ID #: DW Location Code:

Collected By (signature): *[Signature]* Turnaround Date Required: Immediately Packed on Ice:  Yes  No

Sample Disposal:  Dispose as appropriate  Return  Archive:  Hold: Rush:  Same Day  Next Day  2 Day  3 Day  4 Day  5 Day (Expedite Charges Apply) Field Filtered (if applicable):  Yes  No Analysis:

\* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start)		Composite End		Res Cl	# of Ctns
			Date	Time	Date	Time		
MW-1R	GW	G	3/7/19	13:37			6	X
MW-2	↑	↑	↑	13:29			↑	↑
MW-3	↑	↑	↑	12:39			↑	↑
MW-4	↑	↑	↑	10:36			↑	↑
MW-5	↑	↑	↑	11:32			↑	↑
MW-6	↑	↑	↑	11:24			↑	↑
MW-7	↑	↑	↑	11:17			↑	↑
MW-8	↑	↑	↑	10:58			↑	↑
MW-9	↓	↓	↓	10:30			↓	↓
MW-10	GW	G	3/7	12:19			6	X

Analyses

Lab Profile/Line:

Lab Sample Receipt Checklist:

- Custody Seals Present/Intact Y N NA
- Custody Signatures Present Y N NA
- Collector Signature Present Y N NA
- Bottles Intact Y N NA
- Correct Bottles Y N NA
- Sufficient Volume Y N NA
- Samples Received on Ice Y N NA
- VOA - Headspace Acceptable Y N NA
- USDA Regulated Soils Y N NA
- Samples in Holding Time Y N NA
- Residual Chlorine Present Y N NA
- Cl Strips: \_\_\_\_\_
- Sample pH Acceptable Y N NA
- pH Strips: \_\_\_\_\_
- Sulfide Present Y N NA
- Lead Acetate Strips: \_\_\_\_\_

LAB USE ONLY:  
Lab Sample # / Comments:

Customer Remarks / Special Conditions / Possible Hazards:

Type of Ice Used: Wet Blue Dry None

SHORT HOLDS PRESENT (<72 hours): Y N N/A

Packing Material Used: **Ice**

Lab Tracking #: **3-8-19 1021 2343540**

Radchem sample(s) screened (<500 cpm): Y N NA

Samples received via: FEDEX UPS Client Courier Pace Courier

Lab Sample Temperature Info:

Temp Blank Received: Y N NA

Therm ID#: \_\_\_\_\_

Cooler 1 Temp Upon Receipt: \_\_\_\_\_ oC

Cooler 1 Therm Contr. Factor: \_\_\_\_\_ oC

Cooler 1 Corrected Temp: \_\_\_\_\_ oC

Comments:

Relinquished by/Company: (Signature) *[Signature]* Date/Time: **3/8/19 10:21** Received by/Company: (Signature) *[Signature]* Date/Time: **3-8-19 1021**

Relinquished by/Company: (Signature) Date/Time: Received by/Company: (Signature) Date/Time:

Relinquished by/Company: (Signature) Date/Time: Received by/Company: (Signature) Date/Time:

MTJL LAB USE ONLY

Table #:

Acctnum:

Template:

Prelogin:

PM:

PB:

Trip Blank Received: Y N NA

HCL MeOH TSP Other

Non Conformance(s): YES / NO

Page: **1** of: **1**





# CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY - Attach Workorder/Log In Label Here or List Pace Workorder Number or MTJL Log-In Number Here

Company: **SCDHEC**

Billing Information:

Address: **2600 Bull St. Columbia, SC**

Report To:

Copy To:

Email To: **dunra@dhcc.sc.gov**

Customer Project Name/Number: **Steady Simon**

Site Collection Info/Address: **SC/Jasper**

State: **SC** County/City: **Jasper** Time Zone Collected: **[ ] PT [ ] MT [ ] CT [ ] ET**

Phone: **18856** Site/Facility ID #: **18856**

Compliance Monitoring? **[ ] Yes [ ] No**

Collected By (print): **Shawn Spratt**

Purchase Order #: **Quote #:**

DW PWS ID #: **DW Location Code:**

Collected By (signature): **[Signature]**

Turnaround Date Required:

Immediately Packed on Ice: **[ ] Yes [ ] No**

Sample Disposal: **[ ] Dispose as appropriate [ ] Return [ ] Archive [ ] Hold:**

Rush: **[ ] Same Day [ ] Next Day [ ] 2 Day [ ] 3 Day [ ] 4 Day [ ] 5 Day (Expedite Charges Apply)**

Field Filtered (if applicable): **[ ] Yes [ ] No**

Analysis: **BTEXNM + OXYGS + 1,2-DCA+ETH-804**

\* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start)		Composite End		Res Cl	# of Ctns
			Date	Time	Date	Time		
MW-11	GW	G	3/7	11:39				5
MW-12	↑	↑	↑	11:07				↑
MW-13	↑	↑	↑	10:51				↑
MW-14	↑	↑	↑	12:35				↑
MW-15	↑	↑	↑	12:59				↑
MW-16	↑	↑	↑	11:55				↑
MW-17	↑	↑	↑	10:18				↑
DW-1	↓	↓	↓	10:51				↓
DW-2	↓	↓	↓	10:14				↓
DW-3	GW	G	3/7	12:03				6

Container Preservative Type \*\*

Lab Project Manager:

\*\* Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other

Analyses

Lab Profile/Line:

Lab Sample Receipt Checklist:

Custody Seals Present/Intact **Y N NA**

Custody Signatures Present **Y N NA**

Collector Signature Present **Y N NA**

Bottles Intact **Y N NA**

Correct Bottles **Y N NA**

Sufficient Volume **Y N NA**

Samples Received on Ice **Y N NA**

VOA - Headspace Acceptable **Y N NA**

USDA Regulated Soils **Y N NA**

Samples in Holding Time **Y N NA**

Residual Chlorine Present **Y N NA**

Cl Strips: \_\_\_\_\_

Sample pH Acceptable **Y N NA**

pH Strips: \_\_\_\_\_

Sulfide Present **Y N NA**

Lead Acetate Strips: \_\_\_\_\_

LAB USE ONLY: Lab Sample # / Comments:

Customer Remarks / Special Conditions / Possible Hazards:

Type of Ice Used: **Wet Blue Dry None**

SHORT HOLDS PRESENT (<72 hours): **Y N N/A**

Packing Material Used:

Lab Tracking #: **2343542**

Temp Blank Received: **Y N NA**

Radchem sample(s) screened (<500 cpm): **Y N NA**

Samples received via: **FEDEX UPS Client Courier Pace Courier**

Cooler 1 Temp Upon Receipt: \_\_\_\_\_ °C

Relinquished by/Company: (Signature) **[Signature] / MECI**

Date/Time: **3/21/19 10:21**

Received by/Company: (Signature) **[Signature] Pace**

Date/Time: **3/21/19 10:21**

MTJL LAB USE ONLY

Cooler 1 Therm Corr. Factor: \_\_\_\_\_ °C

Relinquished by/Company: (Signature)

Date/Time:

Received by/Company: (Signature)

Date/Time:

Table #: \_\_\_\_\_

Cooler 1 Corrected Temp: \_\_\_\_\_ °C

Relinquished by/Company: (Signature)

Date/Time:

Received by/Company: (Signature)

Date/Time:

Acctnum: \_\_\_\_\_

Trip Blank Received: **Y N NA**

Relinquished by/Company: (Signature)

Date/Time:

Received by/Company: (Signature)

Date/Time:

Template: \_\_\_\_\_

HCL MeOH TSP Other

Relinquished by/Company: (Signature)

Date/Time:

Received by/Company: (Signature)

Date/Time:

Prelogin: \_\_\_\_\_

Non Conformance(s): **YES / NO**



# CHAIN-OF-CUSTODY Analytical Request Document

LAB USE ONLY- Affix Workorder/Login Label Here or List Pace Workorder Number or  
MTJL Log-In Number Here

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

**ALL SHADED AREAS are for LAB USE ONLY**

Company: **SCDHEC**

Billing Information:

Address: **2600 Bull St, Columbia SC**

Report To:

Copy To:

Email To: **dunnrc@dhec.sc.gov**

Customer Project Name/Number:

Site Collection Info/Address:

State: **SC** County/City: **Jasper** Time Zone Collected: **[PT][MT][CT][ET]**

Phone:

Site/Facility ID #: **18856**

Compliance Monitoring?  
 Yes  No

Collected By (print): **Shawn Sprott**

Purchase Order #:   
Quote #:

DW PWS ID #:   
DW Location Code:

Collected By (signature): *[Signature]*

Turnaround Date Required:

Immediately Packed on Ice:  
 Yes  No

Sample Disposal:  
 Dispose as appropriate  Return  
 Archive:   
 Hold:

Rush:  
 Same Day  Next Day  
 2 Day  3 Day  4 Day  5 Day  
(Expedite Charges Apply)

Field Filtered (if applicable):  
 Yes  No

Analysis: \_\_\_\_\_

\* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start)		Composite End		Res Cl	# of Ctns										
			Date	Time	Date	Time												
DW-4	GW	G	3/7	11:22				6	X	X								
DW-5				13:20					X	X								No Odor
DW-6				13:31					X	X								No Odor
DW-7				13:04					X	X								No Odor
DW-8				10:12					X	X								No Odor
SW-1				3:27					X	X								LDL
SW-2				13:29					X	X								LDL
SW-3																		DNS
DUP-1				12:19					X	X								No Odor
DUP-2	GW	G	3/7	2:35				6	X	X								No Odor

BTEXNH4OXYGst 12-DCA+ETH-8260B  
EDB BY 8011

Container Preservative Type \*\*

Lab Project Manager:

\*\* Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other

Analyses

Lab Profile/Line:

Lab Sample Receipt Checklist:

Custody Seals Present/Intact Y N NA

Custody Signatures Present Y N NA

Collector Signature Present Y N NA

Bottles Intact Y N NA

Correct Bottles Y N NA

Sufficient Volume Y N NA

Samples Received on Ice Y N NA

VOA - Headspace Acceptable Y N NA

USDA Regulated Soils Y N NA

Samples in Holding Time Y N NA

Residual Chlorine Present Y N NA

CI Strips: \_\_\_\_\_

Sample pH Acceptable Y N NA

pH Strips: \_\_\_\_\_

Sulfide Present Y N NA

Lead Acetate Strips: \_\_\_\_\_

LAB USE ONLY:  
Lab Sample # / Comments:

Customer Remarks / Special Conditions / Possible Hazards:

Type of Ice Used: Wet Blue Dry None

SHORT HOLDS PRESENT (<72 hours): Y N N/A

Packing Material Used:

Lab Tracking #: **2343541**

Lab Sample Temperature Info:

Radchem sample(s) screened (<500 cpm): Y N NA

Samples received via:  
FEDEX UPS Client Courier Pace Courier

Temp Blank Received: Y N NA

Relinquished by/Company: (Signature) *[Signature]* / MECI

Date/Time: 3/8/19 10:21

Received by/Company: (Signature) *[Signature]*

Date/Time: 3-8-19 10:21

Table #: \_\_\_\_\_

Cooler 1 Temp Upon Receipt: \_\_\_\_\_ oC

Relinquished by/Company: (Signature)

Date/Time:

Received by/Company: (Signature)

Date/Time:

Acctnum:

Cooler 1 Therm Corr. Factor: \_\_\_\_\_ oC

Relinquished by/Company: (Signature)

Date/Time:

Received by/Company: (Signature)

Date/Time:

Template:

Cooler 1 Corrected Temp: \_\_\_\_\_ oC

Relinquished by/Company: (Signature)

Date/Time:

Received by/Company: (Signature)

Date/Time:

Prelogin:

Trip Blank Received: Y N NA

Relinquished by/Company: (Signature)

Date/Time:

Received by/Company: (Signature)

Date/Time:

PM:

HCL MeOH TSP Other

Relinquished by/Company: (Signature)

Date/Time:

Received by/Company: (Signature)

Date/Time:

PB:

Non Conformance(s): YES / NO Page: 3 of 4



# CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here or List Pace Workorder Number or MTJL Log-In Number Here

**ALL SHADED AREAS are for LAB USE ONLY**

Company: SC DHEC Billing Information:

Address: 2600 Bull St, Columbia, SC

Report To: R. Dunn Email To: dunnra@dhcc.sc.gov

Copy To: Site Collection Info/Address:

Container Preservative Type \*\*

Lab Project Manager:

\*\* Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other

Customer Project Name/Number: Steady Simmons State: SC County/City: Jasper Time Zone Collected: ET

Phone: Site/Facility ID #: 18856 Compliance Monitoring?  Yes  No

Email: Shawn Spirtt Purchase Order #: Quote #: DW PWS ID #: DW Location Code:

Collected By (print): Shawn Spirtt Turnaround Date Required: Immediately Packed on Ice:  Yes  No

Collected By (signature): [Signature] Rush:  Same Day  Next Day  2 Day  3 Day  4 Day  5 Day (Expedite Charges Apply) Field Filtered (if applicable):  Yes  No

Sample Disposal:  Dispose as appropriate  Return  Archive  Hold Analysis: \_\_\_\_\_

Analyses

Lab Profile/Line:

Lab Sample Receipt Checklist:

Custody Seals Present/Intact Y N NA  
 Custody Signatures Present Y N NA  
 Collector Signature Present Y N NA  
 Bottles Intact Y N NA  
 Correct Bottles Y N NA  
 Sufficient Volume Y N NA  
 Samples Received on Ice Y N NA  
 VOA - Headspace Acceptable Y N NA  
 USDA Regulated Soils Y N NA  
 Samples in Holding Time Y N NA  
 Residual Chlorine Present Y N NA  
 Cl Strips: \_\_\_\_\_  
 Sample pH Acceptable Y N NA  
 pH Strips: \_\_\_\_\_  
 Sulfide Present Y N NA  
 Lead Acetate Strips: \_\_\_\_\_

LAB USE ONLY:  
 Lab Sample # / Comments:

\* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start)		Composite End		Res Cl	# of Ctns	BTEX MW: 10X1G5+12-DCA+ETH-826.08	EDBY 8011
			Date	Time	Date	Time				
FB	GW	G	3/7	13:35				6	X	X
TR-1	GW	G	3/7	13:35				2	X	
TR-2	GW	G	3/7	13:35				2	X	

Customer Remarks / Special Conditions / Possible Hazards: Type of Ice Used: Wet Blue Dry None SHORT HOLDS PRESENT (<72 hours): Y N N/A

Packing Material Used: Lab Tracking #: **2342819**

Radchem sample(s) screened (<500 cpm): Y N NA Samples received via: FEDEX UPS Client Courier Pace Courier

Relinquished by/Company: (Signature) [Signature] Date/Time: 3/3/19 10:21 Received by/Company: (Signature) [Signature] Date/Time: 3-8-19 10:21

Relinquished by/Company: (Signature) Date/Time: Received by/Company: (Signature) Date/Time:

Relinquished by/Company: (Signature) Date/Time: Received by/Company: (Signature) Date/Time:

Lab Sample Temperature Info:

Temp Blank Received: Y N NA  
 Therm ID#: \_\_\_\_\_  
 Cooler 1 Temp Upon Receipt: \_\_\_\_\_ °C  
 Cooler 1 Therm Corr. Factor: \_\_\_\_\_ °C  
 Cooler 1 Corrected Temp: \_\_\_\_\_ °C  
 Comments:

Trip Blank Received: Y N NA  
 HCL MeOH TSP Other

Non Conformance(s): YES / NO Page: 4 of: 4



# CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here or List Pace Workorder Number or MTJL Log-In Number Here

**ALL SHADED AREAS are for LAB USE ONLY**

Company: **SCDHEC** Billing Information:

Address: **2600 Bull St Columbia SC**

Report To: Email To: **junra@dhec.sc.gov**

Copy To: Site Collection Info/Address:

Customer Project Name/Number: **Steady SIMMONS** State: **SC** County/City: **Jasper** Time Zone Collected: **[ ] PT [ ] MT [ ] CT [ ] ET**

Phone: Site/Facility ID #: **18856** Compliance Monitoring?  Yes  No

Collected By (print): **Shawn Sproff** Purchase Order #: Quote #: DW PWS ID #: DW Location Code:

Collected By (signature): *[Signature]* Turnaround Date Required: Immediately Packed on Ice:  Yes  No

Sample Disposal: Rush:  Same Day  Next Day  2 Day  3 Day  4 Day  5 Day (Expedite Charges Apply) Field Filtered (if applicable):  Yes  No

Dispose as appropriate  Return  Archive:  Hold: Analysis:

Container Preservative Type \*\* **3 3 8** Lab Project Manager:

\*\* Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start)		Composite End		Res Cl	# of Ctns	Analyses	Lab Profile/Line:
			Date	Time	Date	Time				
WSW-1	DW	G	3/7/19	13:45				9	X X X	LDL
WSW-2				13:50				9	X X X	LDL
WSW-3				13:52				9	X X X	LDL
WSW-4				13:55				9	X X X	LDL
WSW-5										DNS
WSW-6										DNS
WSW-7										DNS
WSW-8										DNS
WSW-9										DNS
WSW-DUP	DW	G	3/7	13:45				9	X X X	LDL

BTEX NM+1,2 DCA 524.2  
 7-Oxygenates + Ethanol 8260B  
 EOB 504.1

**Lab Sample Receipt Checklist:**

Custody Seals Present/Intact Y N NA

Custody Signatures Present Y N NA

Collector Signature Present Y N NA

Bottles Intact Y N NA

Correct Bottles Y N NA

Sufficient Volume Y N NA

Samples Received on Ice Y N NA

VDA - Headspace Acceptable Y N NA

USDA Regulated Soils Y N NA

Samples in Holding Time Y N NA

Residual Chlorine Present Y N NA

Cl Strips: \_\_\_\_\_

Sample pH Acceptable Y N NA

pH Strips: \_\_\_\_\_

Sulfide Present Y N NA

Lead Acetate Strips: \_\_\_\_\_

LAB USE ONLY:  
Lab Sample # / Comments:

\* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Remarks / Special Conditions / Possible Hazards:

Type of Ice Used: Wet Blue Dry None

Packing Material Used:

Radchem sample(s) screened (<500 cpm): Y N NA

SHORT HOLDS PRESENT (<72 hours): Y N N/A

Lab Tracking #: **2343539**

Samples received via: FEDEX UPS Client Courier Pace Courier

Lab Sample Temperature Info:

Temp Blank Received: Y N NA

Therm ID#: \_\_\_\_\_

Cooler 1 Temp Upon Receipt: \_\_\_\_\_ °C

Cooler 1 Therm Corr. Factor: \_\_\_\_\_ °C

Cooler 1 Corrected Temp: \_\_\_\_\_ °C

Comments:

Relinquished by/Company: (Signature) Date/Time: **3/7/19 10:21** Received by/Company: (Signature) Date/Time: **3-8-19 1021**

Relinquished by/Company: (Signature) Date/Time: Received by/Company: (Signature) Date/Time:

Relinquished by/Company: (Signature) Date/Time: Received by/Company: (Signature) Date/Time:

**MTJL LAB USE ONLY**

Table #: \_\_\_\_\_

Acctnum: \_\_\_\_\_

Template: \_\_\_\_\_

Prelogin: \_\_\_\_\_

PM: \_\_\_\_\_

PB: \_\_\_\_\_

Trip Blank Received: Y N NA

HCL MeOH TSP Other

Non Conformance(s): YES / NO Page: **1** of: **3**



# CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY: Affix Workorder/Login Label Here or List Pace Workorder Number or MTJL Log-In Number Here

**ALL SHADED AREAS are for LAB USE ONLY**

Company: **SC DHEC** Billing Information:

Address: **2600 Bull St., Columbia, SC**

Report To: Email To: **jdarrac@dec.sc.gov**

Copy To: Site Collection Info/Address:

Customer Project Name/Number: **Steady Simmons** State: **SC** County/City: **Jasper** Time Zone Collected: **[ ] PT [ ] MT [ ] CT [ ] ET**

Phone: Site/Facility ID #: **18856** Compliance Monitoring?  Yes  No

Email: **Shawn Sprott** Purchase Order #: Quote #: DW PWS ID #: DW Location Code:

Collected By (print): **Shawn Sprott** Turnaround Date Required: Immediately Packed on Ice:  Yes  No

Collected By (signature): *[Signature]*

Sample Disposal:  Dispose as appropriate  Return  Archive  Hold Rush:  Same Day  Next Day  2 Day  3 Day  4 Day  5 Day (Expedite Charges Apply) Field Filtered (if applicable):  Yes  No Analysis:

Container Preservative Type \*\*

Lab Project Manager:

\*\* Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other

Analyses

Lab Profile/Line:

Lab Sample Receipt Checklist:

- Custody Seals Present/Intact Y N NA
- Custody Signatures Present Y N NA
- Collector Signature Present Y N NA
- Bottles Intact Y N NA
- Correct Bottles Y N NA
- Sufficient Volume Y N NA
- Samples Received on Ice Y N NA
- VOA - Headspace Acceptable Y N NA
- USDA Regulated Soils Y N NA
- Samples in Holding Time Y N NA
- Residual Chlorine Present Y N NA
- Cl Strips:
- Sample pH Acceptable Y N NA
- pH Strips:
- Sulfide Present Y N NA
- Lead Acetate Strips:

LAB USE ONLY:  
Lab Sample # / Comments:

\* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start)		Composite End		Res Cl	# of Ctns
			Date	Time	Date	Time		
WSW - FB	DW	G	3/7	13:38				9
WSW - TB	DW	G	3/7	13:39				6

Handwritten notes in the analysis columns:  
 BTEXNM+1,2,4,5,6  
 7-Oxygens & Ethanol 82606  
 EDB 504.1

field blank  
trip blank

Customer Remarks / Special Conditions / Possible Hazards:

Type of Ice Used: Wet Blue Dry None

Packing Material Used:

Radchem sample(s) screened (<500 cpm): Y N NA

SHORT HOLDS PRESENT (<72 hours): Y N N/A

Lab Tracking #: **2338863**

Samples received via: FEDEX UPS Client Courier Pace Courier

Lab Sample Temperature Info:

Temp Blank Received: Y N NA

Therm ID#:

Cooler 1 Temp Upon Receipt: °C

Cooler 1 Therm Corr. Factor: °C

Cooler 1 Corrected Temp: °C

Comments:

Relinquished by/Company: (Signature) *[Signature]* / ME CI Date/Time: **3/5/19 10:21**

Received by/Company: (Signature) *[Signature]* Date/Time: **3-8-19 10:21**

Relinquished by/Company: (Signature) Date/Time:

Received by/Company: (Signature) Date/Time:

Relinquished by/Company: (Signature) Date/Time:

Received by/Company: (Signature) Date/Time:

Table #: **MTJL LAB USE ONLY**

Acctnum:

Template:

Prelogin:

PM:

PB:

Trip Blank Received: Y N NA

HCL MeOH TSP Other

Non Conformance(s): YES / NO

Page: **2**

of: **2**



March 25, 2019

Re: Treatment of Purge Water  
Steady Simmons  
Early Branch, South Carolina  
SCDHEC Site ID Number 18856  
MECI Project Number 18-6716

To Whom It May Concern;

Midlands Environmental Consultants, Inc. is providing the following letter as certification that treatment of the referenced purge water complied with the conditions of "Proposed Conditions for Use of Portable Activated Carbon Units for the Treatment of Small Volumes of Petroleum Hydrocarbon Contaminated Groundwater", as described in the following:

Applicability:

Groundwater treated was obtained as a result development of wells and sampling.

Conditions:

1. The purge/bail water from all wells is mixed before usage of the Activated Carbon Unit.
2. No free-product was detected in any of the purge water drums.
3. Analytical results of from well sampling show average concentrations of petroleum hydrocarbon constituents less than 5000 parts per billion (ppb) Benzene and less than 20,000 ppb total BTEX.
4. The existing carbon pack will be replaced/reactivated every 5,000 gallons.
5. Record of usage is maintained by Contractor.
6. Any and all recommendations and conditions issued by the Manufacturer have been adhered to.
7. Any and all recommendations and conditions (even on a site by site basis) issued by the SCDHEC must be adhered to.

All purge waters were treated on-site using an up-flow treatment drum loaded with 80 pounds of activated carbon. Carbon will be loaded to a maximum of 3 pounds of total organic compounds or 5,000 gallons of development/purge water, whichever occurs first.

March 25, 2019


**A total of 235.50 gallons were treated on March 7, 2019 at the referenced site.**

Midlands Environmental also tracks cumulative organic compounds adsorbed on the activated carbon to ensure the capacity of carbon mass is not over-charged. This data is available upon request.

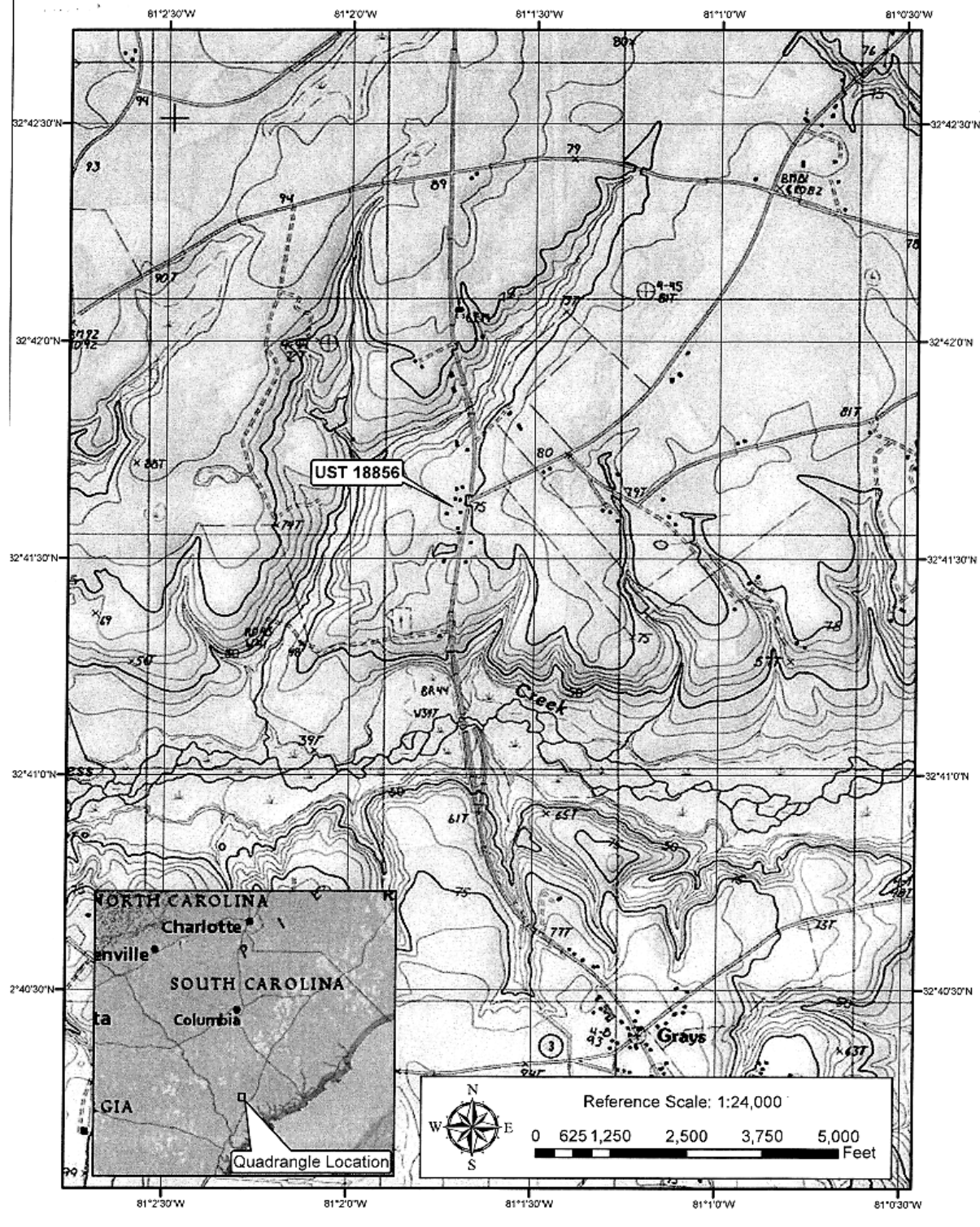
Should you have any questions or comments, please contact the undersigned.

Sincerely,  
Midlands Environmental Consultants, Inc.

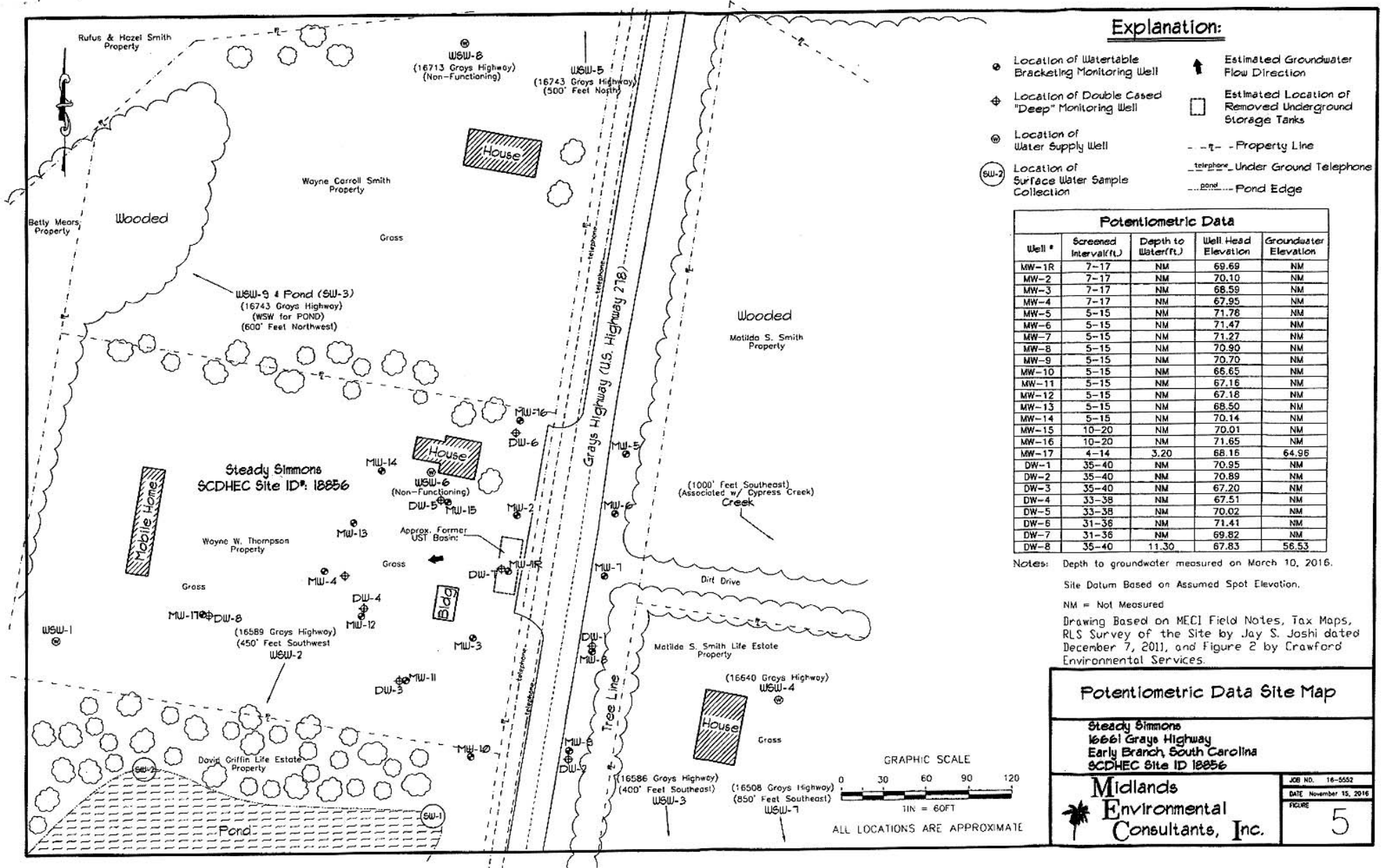


 Kyle V. Pudney  
Project Biologist

# Steady Simmons UST Permit 18856









Pace Analytical Services, LLC  
9800 Kinsey Ave. Suite 100  
Huntersville, NC 28078  
(704)875-9092

March 15, 2019



Robert Dunn  
SCHDEC  
2600 Bull St  
Columbia, SC 29201

RE: Project: Steady Simmons 18856/58463  
Pace Project No.: 92420643

Dear Robert Dunn:

Enclosed are the analytical results for sample(s) received by the laboratory on March 08, 2019. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

*Angela M. Baioni*

Angela Baioni  
angela.baioni@pacelabs.com  
(704)875-9092  
Project Manager

Enclosures



#### REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: Steady Simmons 18856/58463  
Pace Project No.: 92420643

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### Ormond Beach Certification IDs

8 East Tower Circle, Ormond Beach, FL 32174  
Alabama Certification #: 41320  
Colorado Certification: FL NELAC Reciprocity  
Connecticut Certification #: PH-0216  
Florida Certification #: E83079  
Georgia Certification #: 955  
Guam Certification: FL NELAC Reciprocity  
Hawaii Certification: FL NELAC Reciprocity  
Illinois Certification #: 200068  
Indiana Certification: FL NELAC Reciprocity  
Kansas Certification #: E-10383  
Kentucky Certification #: 90050  
Louisiana Certification #: FL NELAC Reciprocity  
Louisiana Environmental Certificate #: 05007  
Maryland Certification: #346  
Michigan Certification #: 9911  
Mississippi Certification: FL NELAC Reciprocity  
Missouri Certification #: 236  
Montana Certification #: Cert 0074

Nebraska Certification: NE-OS-28-14  
New Hampshire Certification #: 2958  
New Jersey Certification #: FL022  
New York Certification #: 11608  
North Carolina Environmental Certificate #: 667  
North Carolina Certification #: 12710  
North Dakota Certification #: R-216  
Oklahoma Certification #: D9947  
Pennsylvania Certification #: 68-00547  
Puerto Rico Certification #: FL01264  
South Carolina Certification: #96042001  
Tennessee Certification #: TN02974  
Texas Certification: FL NELAC Reciprocity  
US Virgin Islands Certification: FL NELAC Reciprocity  
Virginia Environmental Certification #: 460165  
West Virginia Certification #: 9962C  
Wisconsin Certification #: 399079670  
Wyoming (EPA Region 8): FL NELAC Reciprocity

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### Charlotte Certification IDs

9800 Kinsey Ave. Ste 100, Huntersville, NC 28078  
Louisiana/NELAP Certification # LA170028  
North Carolina Drinking Water Certification #: 37706  
North Carolina Field Services Certification #: 5342  
North Carolina Wastewater Certification #: 12

South Carolina Certification #: 99006001  
Florida/NELAP Certification #: E87627  
Kentucky UST Certification #: 84  
Virginia/VELAP Certification #: 460221

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## REPORT OF LABORATORY ANALYSIS

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### SAMPLE SUMMARY

Project: Steady Simmons 18856/58463  
Pace Project No.: 92420643

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92420643001	WSW-1	Water	03/07/19 13:45	03/08/19 10:21
92420643002	WSW-2	Water	03/07/19 13:50	03/08/19 10:21
92420643003	WSW-3	Water	03/07/19 13:52	03/08/19 10:21
92420643004	WSW-4	Water	03/07/19 13:55	03/08/19 10:21
92420643005	WSW-DUP	Water	03/07/19 13:45	03/08/19 10:21
92420643006	WSW-FB	Water	03/07/19 13:38	03/08/19 10:21
92420643007	WSW-TB	Water	03/07/19 13:39	03/08/19 10:21

### REPORT OF LABORATORY ANALYSIS

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**SAMPLE ANALYTE COUNT**

Project: Steady Simmons 18856/58463  
Pace Project No.: 92420643

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92420643001	WSW-1	EPA 504.1	BAJ	2	PASI-C
		EPA 524.2	JLR	10	PASI-O
		EPA 8260B	NSCQ	11	PASI-C
92420643002	WSW-2	EPA 504.1	BAJ	2	PASI-C
		EPA 524.2	JLR	10	PASI-O
		EPA 8260B	NSCQ	11	PASI-C
92420643003	WSW-3	EPA 504.1	BAJ	2	PASI-C
		EPA 524.2	JLR	10	PASI-O
		EPA 8260B	NSCQ	11	PASI-C
92420643004	WSW-4	EPA 504.1	BAJ	2	PASI-C
		EPA 524.2	JLR	10	PASI-O
		EPA 8260B	NSCQ	11	PASI-C
92420643005	WSW-DUP	EPA 504.1	BAJ	2	PASI-C
		EPA 524.2	JLR	10	PASI-O
		EPA 8260B	NSCQ	11	PASI-C
92420643006	WSW-FB	EPA 504.1	BAJ	2	PASI-C
		EPA 524.2	JLR	10	PASI-O
		EPA 8260B	SAS	11	PASI-C
92420643007	WSW-TB	EPA 524.2	JLR	10	PASI-O
		EPA 8260B	SAS	11	PASI-C

**REPORT OF LABORATORY ANALYSIS**

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### ANALYTICAL RESULTS

Project: Steady Simmons 18856/58463  
Pace Project No.: 92420643

Sample:	Lab ID:	Collected:	Received:	Matrix:					
WSW-1	92420643001	03/07/19 13:45	03/08/19 10:21	Water					
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>504 GCS EDB and DBCP</b>									
Analytical Method: EPA 504.1					Preparation Method: EPA 504.1				
1,2-Dibromoethane (EDB)	ND	ug/L	0.021	0.021	1	03/11/19 12:19	03/12/19 01:06	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	99	%	70-130		1	03/11/19 12:19	03/12/19 01:06	301-79-56	
<b>524.2 MSV</b>									
Analytical Method: EPA 524.2									
Benzene	ND	ug/L	0.50	0.25	1		03/14/19 13:06	71-43-2	
1,2-Dichloroethane	ND	ug/L	0.50	0.25	1		03/14/19 13:06	107-06-2	
Ethylbenzene	ND	ug/L	0.50	0.25	1		03/14/19 13:06	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	0.50	0.25	1		03/14/19 13:06	1634-04-4	
Naphthalene	ND	ug/L	0.50	0.25	1		03/14/19 13:06	91-20-3	
Toluene	ND	ug/L	0.50	0.25	1		03/14/19 13:06	108-88-3	
Xylene (Total)	ND	ug/L	0.50	0.25	1		03/14/19 13:06	1330-20-7	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	106	%	70-130		1		03/14/19 13:06	460-00-4	
Toluene-d8 (S)	100	%	70-130		1		03/14/19 13:06	2037-26-5	
1,2-Dichloroethane-d4 (S)	98	%	70-130		1		03/14/19 13:06	17060-07-0	
<b>8260 MSV Low Level SC</b>									
Analytical Method: EPA 8260B									
tert-Amyl Alcohol	ND	ug/L	100	53.9	1		03/09/19 17:25	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.5	1		03/09/19 17:25	994-05-8	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	62.0	1		03/09/19 17:25	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	27.3	1		03/09/19 17:25	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.7	1		03/09/19 17:25	762-75-4	
Diisopropyl ether	ND	ug/L	1.0	0.22	1		03/09/19 17:25	108-20-3	
Ethanol	ND	ug/L	200	98.8	1		03/09/19 17:25	64-17-5	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.7	1		03/09/19 17:25	637-92-3	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	103	%	70-130		1		03/09/19 17:25	460-00-4	
1,2-Dichloroethane-d4 (S)	94	%	70-130		1		03/09/19 17:25	17060-07-0	
Toluene-d8 (S)	104	%	70-130		1		03/09/19 17:25	2037-26-5	

### REPORT OF LABORATORY ANALYSIS

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**ANALYTICAL RESULTS**

Project: Steady Simmons 18856/58463  
 Pace Project No.: 92420643

Sample: WSW-2 Lab ID: 92420643002 Collected: 03/07/19 13:50 Received: 03/08/19 10:21 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>504 GCS EDB and DBCP</b>									
Analytical Method: EPA 504.1 Preparation Method: EPA 504.1									
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	03/11/19 12:19	03/12/19 01:26	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	104	%	70-130		1	03/11/19 12:19	03/12/19 01:26	301-79-56	
<b>524.2 MSV</b>									
Analytical Method: EPA 524.2									
Benzene	ND	ug/L	0.50	0.25	1		03/14/19 13:40	71-43-2	
1,2-Dichloroethane	ND	ug/L	0.50	0.25	1		03/14/19 13:40	107-06-2	
Ethylbenzene	ND	ug/L	0.50	0.25	1		03/14/19 13:40	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	0.50	0.25	1		03/14/19 13:40	1634-04-4	
Naphthalene	ND	ug/L	0.50	0.25	1		03/14/19 13:40	91-20-3	
Toluene	ND	ug/L	0.50	0.25	1		03/14/19 13:40	108-88-3	
Xylene (Total)	ND	ug/L	0.50	0.25	1		03/14/19 13:40	1330-20-7	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	110	%	70-130		1		03/14/19 13:40	460-00-4	
Toluene-d8 (S)	98	%	70-130		1		03/14/19 13:40	2037-26-5	
1,2-Dichloroethane-d4 (S)	96	%	70-130		1		03/14/19 13:40	17060-07-0	
<b>8260 MSV Low Level SC</b>									
Analytical Method: EPA 8260B									
tert-Amyl Alcohol	ND	ug/L	100	53.9	1		03/09/19 16:30	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.5	1		03/09/19 16:30	994-05-8	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	62.0	1		03/09/19 16:30	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	27.3	1		03/09/19 16:30	75-85-0	
tert-Butyl Formate	ND	ug/L	50.0	24.7	1		03/09/19 16:30	762-75-4	
Diisopropyl ether	ND	ug/L	1.0	0.22	1		03/09/19 16:30	108-20-3	
Ethanol	ND	ug/L	200	98.8	1		03/09/19 16:30	64-17-5	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.7	1		03/09/19 16:30	637-92-3	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	101	%	70-130		1		03/09/19 16:30	460-00-4	
1,2-Dichloroethane-d4 (S)	94	%	70-130		1		03/09/19 16:30	17060-07-0	
Toluene-d8 (S)	105	%	70-130		1		03/09/19 16:30	2037-26-5	

**REPORT OF LABORATORY ANALYSIS**

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### ANALYTICAL RESULTS

Project: Steady Simmons 18856/58463  
Pace Project No.: 92420643

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>Sample: WSW-3</b>									
Lab ID: 92420643003 Collected: 03/07/19 13:52 Received: 03/08/19 10:21 Matrix: Water									
Analytical Method: EPA 504.1 Preparation Method: EPA 504.1									
<b>504 GCS EDB and DBCP</b>									
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	03/11/19 12:19	03/12/19 01:46	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	98	%	70-130		1	03/11/19 12:19	03/12/19 01:46	301-79-56	
Analytical Method: EPA 524.2									
<b>524.2 MSV</b>									
Benzene	ND	ug/L	0.50	0.25	1		03/14/19 14:04	71-43-2	
1,2-Dichloroethane	ND	ug/L	0.50	0.25	1		03/14/19 14:04	107-06-2	
Ethylbenzene	ND	ug/L	0.50	0.25	1		03/14/19 14:04	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	0.50	0.25	1		03/14/19 14:04	1634-04-4	
Naphthalene	ND	ug/L	0.50	0.25	1		03/14/19 14:04	91-20-3	
Toluene	ND	ug/L	0.50	0.25	1		03/14/19 14:04	108-88-3	
Xylene (Total)	ND	ug/L	0.50	0.25	1		03/14/19 14:04	1330-20-7	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	103	%	70-130		1		03/14/19 14:04	460-00-4	
Toluene-d8 (S)	99	%	70-130		1		03/14/19 14:04	2037-26-5	
1,2-Dichloroethane-d4 (S)	98	%	70-130		1		03/14/19 14:04	17060-07-0	
Analytical Method: EPA 8260B									
<b>8260 MSV Low Level SC</b>									
tert-Amyl Alcohol	ND	ug/L	100	53.9	1		03/09/19 16:48	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.5	1		03/09/19 16:48	994-05-8	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	62.0	1		03/09/19 16:48	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	27.3	1		03/09/19 16:48	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.7	1		03/09/19 16:48	762-75-4	
Diisopropyl ether	ND	ug/L	1.0	0.22	1		03/09/19 16:48	108-20-3	
Ethanol	ND	ug/L	200	98.8	1		03/09/19 16:48	64-17-5	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.7	1		03/09/19 16:48	637-92-3	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	101	%	70-130		1		03/09/19 16:48	460-00-4	
1,2-Dichloroethane-d4 (S)	92	%	70-130		1		03/09/19 16:48	17060-07-0	
Toluene-d8 (S)	104	%	70-130		1		03/09/19 16:48	2037-26-5	

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### ANALYTICAL RESULTS

Project: Steady Simmons 18856/58463  
Pace Project No.: 92420643

Sample: WSW-4 Lab ID: 92420643004 Collected: 03/07/19 13:55 Received: 03/08/19 10:21 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>504 GCS EDB and DBCP</b> Analytical Method: EPA 504.1 Preparation Method: EPA 504.1									
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	03/12/19 13:29	03/12/19 19:38	106-93-4	
<i>Surrogates</i>									
1-Chloro-2-bromopropane (S)	101	%	70-130		1	03/12/19 13:29	03/12/19 19:38	301-79-56	
<b>524.2 MSV</b> Analytical Method: EPA 524.2									
Benzene	ND	ug/L	0.50	0.25	1		03/14/19 14:27	71-43-2	
1,2-Dichloroethane	ND	ug/L	0.50	0.25	1		03/14/19 14:27	107-06-2	
Ethylbenzene	ND	ug/L	0.50	0.25	1		03/14/19 14:27	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	0.50	0.25	1		03/14/19 14:27	1634-04-4	
Naphthalene	ND	ug/L	0.50	0.25	1		03/14/19 14:27	91-20-3	
Toluene	ND	ug/L	0.50	0.25	1		03/14/19 14:27	108-88-3	
Xylene (Total)	ND	ug/L	0.50	0.25	1		03/14/19 14:27	1330-20-7	
<i>Surrogates</i>									
4-Bromofluorobenzene (S)	102	%	70-130		1		03/14/19 14:27	460-00-4	
Toluene-d8 (S)	96	%	70-130		1		03/14/19 14:27	2037-26-5	
1,2-Dichloroethane-d4 (S)	96	%	70-130		1		03/14/19 14:27	17060-07-0	
<b>8260 MSV Low Level SC</b> Analytical Method: EPA 8260B									
tert-Amyl Alcohol	ND	ug/L	100	53.9	1		03/09/19 17:44	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.5	1		03/09/19 17:44	994-05-8	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	62.0	1		03/09/19 17:44	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	27.3	1		03/09/19 17:44	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.7	1		03/09/19 17:44	762-75-4	
Diisopropyl ether	ND	ug/L	1.0	0.22	1		03/09/19 17:44	108-20-3	
Ethanol	ND	ug/L	200	98.8	1		03/09/19 17:44	64-17-5	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.7	1		03/09/19 17:44	637-92-3	
<i>Surrogates</i>									
4-Bromofluorobenzene (S)	102	%	70-130		1		03/09/19 17:44	460-00-4	
1,2-Dichloroethane-d4 (S)	96	%	70-130		1		03/09/19 17:44	17060-07-0	
Toluene-d8 (S)	104	%	70-130		1		03/09/19 17:44	2037-26-5	

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### ANALYTICAL RESULTS

Project: Steady Simmons 18856/58463  
Pace Project No.: 92420643

Sample: WSW-DUP Lab ID: 92420643005 Collected: 03/07/19 13:45 Received: 03/08/19 10:21 Matrix: Water									
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>504 GCS EDB and DBCP</b> Analytical Method: EPA 504.1 Preparation Method: EPA 504.1									
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	03/12/19 13:29	03/12/19 20:17	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	97	%	70-130		1	03/12/19 13:29	03/12/19 20:17	301-79-56	
<b>524.2 MSV</b> Analytical Method: EPA 524.2									
Benzene	ND	ug/L	0.50	0.25	1		03/14/19 14:51	71-43-2	
1,2-Dichloroethane	ND	ug/L	0.50	0.25	1		03/14/19 14:51	107-06-2	
Ethylbenzene	ND	ug/L	0.50	0.25	1		03/14/19 14:51	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	0.50	0.25	1		03/14/19 14:51	1634-04-4	
Naphthalene	ND	ug/L	0.50	0.25	1		03/14/19 14:51	91-20-3	
Toluene	ND	ug/L	0.50	0.25	1		03/14/19 14:51	108-88-3	
Xylene (Total)	ND	ug/L	0.50	0.25	1		03/14/19 14:51	1330-20-7	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	104	%	70-130		1		03/14/19 14:51	460-00-4	
Toluene-d8 (S)	99	%	70-130		1		03/14/19 14:51	2037-26-5	
1,2-Dichloroethane-d4 (S)	99	%	70-130		1		03/14/19 14:51	17060-07-0	
<b>8260 MSV Low Level SC</b> Analytical Method: EPA 8260B									
tert-Amyl Alcohol	ND	ug/L	100	53.9	1		03/09/19 18:02	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.5	1		03/09/19 18:02	994-05-8	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	62.0	1		03/09/19 18:02	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	27.3	1		03/09/19 18:02	75-65-0	M1
tert-Butyl Formate	ND	ug/L	50.0	24.7	1		03/09/19 18:02	762-75-4	M1
Diisopropyl ether	ND	ug/L	1.0	0.22	1		03/09/19 18:02	108-20-3	
Ethanol	ND	ug/L	200	98.8	1		03/09/19 18:02	64-17-5	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.7	1		03/09/19 18:02	637-92-3	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	102	%	70-130		1		03/09/19 18:02	460-00-4	
1,2-Dichloroethane-d4 (S)	94	%	70-130		1		03/09/19 18:02	17060-07-0	
Toluene-d8 (S)	105	%	70-130		1		03/09/19 18:02	2037-26-5	

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### ANALYTICAL RESULTS

Project: Steady Simmons 18856/58463  
Pace Project No.: 92420643

Sample: WSW-FB Lab ID: 92420643006 Collected: 03/07/19 13:38 Received: 03/08/19 10:21 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>504 GCS EDB and DBCP</b>									
Analytical Method: EPA 504.1 Preparation Method: EPA 504.1									
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	03/12/19 13:29	03/12/19 20:37	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	106	%	70-130		1	03/12/19 13:29	03/12/19 20:37	301-79-56	
<b>524.2 MSV</b>									
Analytical Method: EPA 524.2									
Benzene	ND	ug/L	0.50	0.25	1		03/14/19 15:15	71-43-2	
1,2-Dichloroethane	ND	ug/L	0.50	0.25	1		03/14/19 15:15	107-06-2	
Ethylbenzene	ND	ug/L	0.50	0.25	1		03/14/19 15:15	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	0.50	0.25	1		03/14/19 15:15	1634-04-4	
Naphthalene	ND	ug/L	0.50	0.25	1		03/14/19 15:15	91-20-3	
Toluene	ND	ug/L	0.50	0.25	1		03/14/19 15:15	108-88-3	
Xylene (Total)	ND	ug/L	0.50	0.25	1		03/14/19 15:15	1330-20-7	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	106	%	70-130		1		03/14/19 15:15	460-00-4	
Toluene-d8 (S)	99	%	70-130		1		03/14/19 15:15	2037-26-5	
1,2-Dichloroethane-d4 (S)	98	%	70-130		1		03/14/19 15:15	17060-07-0	
<b>8260 MSV Low Level SC</b>									
Analytical Method: EPA 8260B									
tert-Amyl Alcohol	ND	ug/L	100	53.9	1		03/09/19 13:36	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.5	1		03/09/19 13:36	994-05-8	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	62.0	1		03/09/19 13:36	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	27.3	1		03/09/19 13:36	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.7	1		03/09/19 13:36	762-75-4	
Diisopropyl ether	ND	ug/L	1.0	0.22	1		03/09/19 13:36	108-20-3	
Ethanol	ND	ug/L	200	98.8	1		03/09/19 13:36	64-17-5	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.7	1		03/09/19 13:36	637-92-3	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	99	%	70-130		1		03/09/19 13:36	460-00-4	
1,2-Dichloroethane-d4 (S)	96	%	70-130		1		03/09/19 13:36	17060-07-0	
Toluene-d8 (S)	103	%	70-130		1		03/09/19 13:36	2037-26-5	

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### ANALYTICAL RESULTS

Project: Steady Simmons 18856/58463

Pace Project No.: 92420643

Sample: WSW-TB Lab ID: 92420643007 Collected: 03/07/19 13:39 Received: 03/08/19 10:21 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>524.2 MSV</b> Analytical Method: EPA 524.2									
Benzene	ND	ug/L	0.50	0.25	1		03/14/19 15:38	71-43-2	
1,2-Dichloroethane	ND	ug/L	0.50	0.25	1		03/14/19 15:38	107-06-2	
Ethylbenzene	ND	ug/L	0.50	0.25	1		03/14/19 15:38	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	0.50	0.25	1		03/14/19 15:38	1634-04-4	
Naphthalene	ND	ug/L	0.50	0.25	1		03/14/19 15:38	91-20-3	
Toluene	ND	ug/L	0.50	0.25	1		03/14/19 15:38	108-88-3	
Xylene (Total)	ND	ug/L	0.50	0.25	1		03/14/19 15:38	1330-20-7	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	105	%	70-130		1		03/14/19 15:38	460-00-4	
Toluene-d8 (S)	100	%	70-130		1		03/14/19 15:38	2037-26-5	
1,2-Dichloroethane-d4 (S)	97	%	70-130		1		03/14/19 15:38	17060-07-0	
<b>8260 MSV Low Level SC</b> Analytical Method: EPA 8260B									
tert-Amyl Alcohol	ND	ug/L	100	53.9	1		03/09/19 13:19	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.5	1		03/09/19 13:19	994-05-8	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	62.0	1		03/09/19 13:19	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	27.3	1		03/09/19 13:19	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.7	1		03/09/19 13:19	762-75-4	
Diisopropyl ether	ND	ug/L	1.0	0.22	1		03/09/19 13:19	108-20-3	
Ethanol	ND	ug/L	200	98.8	1		03/09/19 13:19	64-17-5	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.7	1		03/09/19 13:19	637-92-3	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	101	%	70-130		1		03/09/19 13:19	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%	70-130		1		03/09/19 13:19	17060-07-0	
Toluene-d8 (S)	100	%	70-130		1		03/09/19 13:19	2037-26-5	

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### QUALITY CONTROL DATA

Project: Steady Simmons 18856/58463  
Pace Project No.: 92420643

QC Batch: 523011 Analysis Method: EPA 524.2  
QC Batch Method: EPA 524.2 Analysis Description: 524.2 MSV  
Associated Lab Samples: 92420643001, 92420643002, 92420643003, 92420643004, 92420643005, 92420643006, 92420643007

METHOD BLANK: 2825909 Matrix: Water  
Associated Lab Samples: 92420643001, 92420643002, 92420643003, 92420643004, 92420643005, 92420643006, 92420643007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	0.50	0.25	03/14/19 11:06	
Benzene	ug/L	ND	0.50	0.25	03/14/19 11:06	
Ethylbenzene	ug/L	ND	0.50	0.25	03/14/19 11:06	
Methyl-tert-butyl ether	ug/L	ND	0.50	0.25	03/14/19 11:06	
Naphthalene	ug/L	ND	0.50	0.25	03/14/19 11:06	
Toluene	ug/L	ND	0.50	0.25	03/14/19 11:06	
Xylene (Total)	ug/L	ND	0.50	0.25	03/14/19 11:06	
1,2-Dichloroethane-d4 (S)	%	94	70-130		03/14/19 11:06	
4-Bromofluorobenzene (S)	%	108	70-130		03/14/19 11:06	
Toluene-d8 (S)	%	100	70-130		03/14/19 11:06	

LABORATORY CONTROL SAMPLE & LCSD: 2825910

Parameter	Units	Spike Conc.	2825911				% Rec Limits	RPD	Max RPD	Qualifiers
			LCS Result	LCSD Result	LCS % Rec	LCSD % Rec				
1,2-Dichloroethane	ug/L	40	38.6	35.8	97	89	70-130	8	40	
Benzene	ug/L	40	39.7	38.2	99	95	70-130	4	40	
Ethylbenzene	ug/L	40	40.6	39.5	101	99	70-130	3	40	
Methyl-tert-butyl ether	ug/L	40	34.9	35.7	87	89	70-130	2	40	
Naphthalene	ug/L	40	35.4	35.9	88	90	70-130	2	40	
Toluene	ug/L	40	39.5	39.4	99	99	70-130	0	40	
Xylene (Total)	ug/L	120	128	123	106	102	70-130	4	40	
1,2-Dichloroethane-d4 (S)	%				91	88	70-130			
4-Bromofluorobenzene (S)	%				101	97	70-130			
Toluene-d8 (S)	%				99	99	70-130			

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**QUALITY CONTROL DATA**

Project: Steady Simmons 18856/58463  
Pace Project No.: 92420643

QC Batch: 462397 Analysis Method: EPA 8260B  
QC Batch Method: EPA 8260B Analysis Description: 8260 MSV Low Level SC  
Associated Lab Samples: 92420643001, 92420643002, 92420643003, 92420643004, 92420643005

METHOD BLANK: 2517063 Matrix: Water  
Associated Lab Samples: 92420643001, 92420643002, 92420643003, 92420643004, 92420643005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
3,3-Dimethyl-1-Butanol	ug/L	ND	100	62.0	03/09/19 12:13	
Diisopropyl ether	ug/L	ND	1.0	0.22	03/09/19 12:13	
Ethanol	ug/L	ND	200	98.8	03/09/19 12:13	
Ethyl-tert-butyl ether	ug/L	ND	10.0	3.7	03/09/19 12:13	
tert-Amyl Alcohol	ug/L	ND	100	53.9	03/09/19 12:13	
tert-Amylmethyl ether	ug/L	ND	10.0	3.5	03/09/19 12:13	
tert-Butyl Alcohol	ug/L	ND	100	27.3	03/09/19 12:13	
tert-Butyl Formate	ug/L	ND	50.0	24.7	03/09/19 12:13	
1,2-Dichloroethane-d4 (S)	%	89	70-130		03/09/19 12:13	
4-Bromofluorobenzene (S)	%	101	70-130		03/09/19 12:13	
Toluene-d8 (S)	%	106	70-130		03/09/19 12:13	

LABORATORY CONTROL SAMPLE: 2517064

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
3,3-Dimethyl-1-Butanol	ug/L	1000	1010	101	70-130	
Diisopropyl ether	ug/L	50	57.4	115	70-130	
Ethanol	ug/L	2000	2190	109	70-130	
Ethyl-tert-butyl ether	ug/L	100	107	107	70-130	
tert-Amyl Alcohol	ug/L	1000	1080	108	70-130	
tert-Amylmethyl ether	ug/L	100	106	106	70-130	
tert-Butyl Alcohol	ug/L	500	514	103	70-130	
tert-Butyl Formate	ug/L	400	508	127	70-130	
1,2-Dichloroethane-d4 (S)	%			101	70-130	
4-Bromofluorobenzene (S)	%			99	70-130	
Toluene-d8 (S)	%			96	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2517065 2517066

Parameter	Units	2517065		2517066		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92420643005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result						
3,3-Dimethyl-1-Butanol	ug/L	ND	400	400	496	486	124	122	70-130	2	30
Diisopropyl ether	ug/L	ND	20	20	20.3	20.5	102	103	70-130	1	30
Ethanol	ug/L	ND	800	800	898	887	112	111	70-130	1	30
Ethyl-tert-butyl ether	ug/L	ND	40	40	40.6	40.9	101	102	70-130	1	30
tert-Amyl Alcohol	ug/L	ND	400	400	445	441	111	110	70-130	1	30
tert-Amylmethyl ether	ug/L	ND	40	40	43.2	44.7	108	112	70-130	3	30
tert-Butyl Alcohol	ug/L	ND	200	200	291	267	145	133	70-130	9	30 M1

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**QUALITY CONTROL DATA**

Project: Steady Simmons 18856/58463  
Pace Project No.: 92420643

Parameter	Units	2517065		2517066		MS % Rec	MSD % Rec	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
		92420643005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result							
tert-Butyl Formate	ug/L	ND	160	160	34.8J	50.7	22	32	70-130		30 M1	
1,2-Dichloroethane-d4 (S)	%						93	94	70-130			
4-Bromofluorobenzene (S)	%						95	99	70-130			
Toluene-d8 (S)	%						101	102	70-130			

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**QUALITY CONTROL DATA**

Project: Steady Simmons 18856/58463  
Pace Project No.: 92420643

QC Batch: 462400 Analysis Method: EPA 8260B  
QC Batch Method: EPA 8260B Analysis Description: 8260 MSV Low Level SC  
Associated Lab Samples: 92420643006, 92420643007

METHOD BLANK: 2517067 Matrix: Water  
Associated Lab Samples: 92420643006, 92420643007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
3,3-Dimethyl-1-Butanol	ug/L	ND	100	62.0	03/09/19 11:02	
Diisopropyl ether	ug/L	ND	1.0	0.22	03/09/19 11:02	
Ethanol	ug/L	ND	200	98.8	03/09/19 11:02	
Ethyl-tert-butyl ether	ug/L	ND	10.0	3.7	03/09/19 11:02	
tert-Amyl Alcohol	ug/L	ND	100	53.9	03/09/19 11:02	
tert-Amylmethyl ether	ug/L	ND	10.0	3.5	03/09/19 11:02	
tert-Butyl Alcohol	ug/L	ND	100	27.3	03/09/19 11:02	
tert-Butyl Formate	ug/L	ND	50.0	24.7	03/09/19 11:02	
1,2-Dichloroethane-d4 (S)	%	97	70-130		03/09/19 11:02	
4-Bromofluorobenzene (S)	%	99	70-130		03/09/19 11:02	
Toluene-d8 (S)	%	101	70-130		03/09/19 11:02	

LABORATORY CONTROL SAMPLE: 2517068

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
3,3-Dimethyl-1-Butanol	ug/L	1000	1020	102	70-130	
Diisopropyl ether	ug/L	50	41.3	83	70-130	
Ethanol	ug/L	2000	1630	82	70-130	
Ethyl-tert-butyl ether	ug/L	100	82.3	82	70-130	
tert-Amyl Alcohol	ug/L	1000	955	96	70-130	
tert-Amylmethyl ether	ug/L	100	90.1	90	70-130	
tert-Butyl Alcohol	ug/L	500	469	94	70-130	
tert-Butyl Formate	ug/L	400	375	94	70-130	
1,2-Dichloroethane-d4 (S)	%			101	70-130	
4-Bromofluorobenzene (S)	%			95	70-130	
Toluene-d8 (S)	%			96	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2517069 2517070

Parameter	Units	92420664008		2517069		2517070		% Rec	% Rec	% Rec	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec					
3,3-Dimethyl-1-Butanol	ug/L	ND	2000	2000	1930	2170	96	108	70-130	12	30	
Diisopropyl ether	ug/L	ND	100	100	89.3	87.0	89	87	70-130	3	30	
Ethanol	ug/L	ND	4000	4000	4080	3960	102	99	70-130	3	30	
Ethyl-tert-butyl ether	ug/L	ND	200	200	170	169	85	85	70-130	0	30	
tert-Amyl Alcohol	ug/L	ND	2000	2000	1850	1940	93	97	70-130	5	30	
tert-Amylmethyl ether	ug/L	ND	200	200	189	195	94	97	70-130	3	30	
tert-Butyl Alcohol	ug/L	ND	1000	1000	1280	1300	128	130	70-130	2	30	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

**REPORT OF LABORATORY ANALYSIS**

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**QUALITY CONTROL DATA**

Project: Steady Simmons 18856/58463  
Pace Project No.: 92420643

Parameter	Units	MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2517069		2517070				% Rec	% Rec	% Rec	Limits	Max RPD	Qual
		92420664008 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec						
tert-Butyl Formate	ug/L	ND	800	800	ND	ND	8	7	70-130		30	P5	
1,2-Dichloroethane-d4 (S)	%						98	97	70-130				
4-Bromofluorobenzene (S)	%						101	92	70-130				
Toluene-d8 (S)	%						101	105	70-130				

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**REPORT OF LABORATORY ANALYSIS**

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**QUALITY CONTROL DATA**

Project: Steady Simmons 18856/58463  
Pace Project No.: 92420643

QC Batch: 462545 Analysis Method: EPA 504.1  
QC Batch Method: EPA 504.1 Analysis Description: GCS 504 EDB DBCP  
Associated Lab Samples: 92420643001, 92420643002, 92420643003

METHOD BLANK: 2517570 Matrix: Water  
Associated Lab Samples: 92420643001, 92420643002, 92420643003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	0.020	0.020	03/11/19 17:26	
1-Chloro-2-bromopropane (S)	%	102	70-130		03/11/19 17:26	

LABORATORY CONTROL SAMPLE & LCSD: 2517571 2517572

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	0.25	0.27	0.26	107	103	70-130	3	20	
1-Chloro-2-bromopropane (S)	%				101	97	70-130			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2517574 2517575

Parameter	Units	92419726002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dibromoethane (EDB)	ug/L	0.048			0.32	0.31				3	20	
1-Chloro-2-bromopropane (S)	%						108	102	70-130			

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

**REPORT OF LABORATORY ANALYSIS**

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QUALITY CONTROL DATA

Project: Steady Simmons 18856/58463  
Pace Project No.: 92420643

QC Batch: 462827 Analysis Method: EPA 504.1  
QC Batch Method: EPA 504.1 Analysis Description: GCS 504 EDB DBCP  
Associated Lab Samples: 92420643004, 92420643005, 92420643006

METHOD BLANK: 2518642 Matrix: Water  
Associated Lab Samples: 92420643004, 92420643005, 92420643006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	0.020	0.020	03/12/19 17:19	
1-Chloro-2-bromopropane (S)	%	101	70-130		03/12/19 17:19	

LABORATORY CONTROL SAMPLE & LCSD: 2518643

Parameter	Units	2518644		LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
		Spike Conc.	LCSD Result						
1,2-Dibromoethane (EDB)	ug/L	0.26	0.27	106	101	70-130	6	20	
1-Chloro-2-bromopropane (S)	%			99	95	70-130			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2518646 2518647

Parameter	Units	92420821002		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result						
1,2-Dibromoethane (EDB)	ug/L	0.019U	0.25	0.25	0.26	0.26	104	105	65-135	0	20
1-Chloro-2-bromopropane (S)	%						94	92	70-130		

SAMPLE DUPLICATE: 2518645

Parameter	Units	92420643004 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	ND		20	
1-Chloro-2-bromopropane (S)	%	101	97	4		

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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## QUALIFIERS

Project: Steady Simmons 18856/58463  
Pace Project No.: 92420643

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### DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.  
ND - Not Detected at or above adjusted reporting limit.  
TNTC - Too Numerous To Count  
J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.  
MDL - Adjusted Method Detection Limit.  
PQL - Practical Quantitation Limit.  
RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.  
S - Surrogate  
1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.  
Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.  
LCS(D) - Laboratory Control Sample (Duplicate)  
MS(D) - Matrix Spike (Duplicate)  
DUP - Sample Duplicate  
RPD - Relative Percent Difference  
NC - Not Calculable.  
SG - Silica Gel - Clean-Up  
U - Indicates the compound was analyzed for, but not detected.  
Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.  
A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.  
N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.  
Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.  
TNI - The NELAC Institute.

### LABORATORIES

PASI-C Pace Analytical Services - Charlotte  
PASI-O Pace Analytical Services - Ormond Beach

### ANALYTE QUALIFIERS

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.  
P5 The EPA or method required sample preservation degrades this compound, therefore acceptable recoveries may not be achieved in sample matrix spikes.

## REPORT OF LABORATORY ANALYSIS

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**QUALITY CONTROL DATA CROSS REFERENCE TABLE**

Project: Steady Simmons 18856/58463  
Pace Project No.: 92420643

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92420643001	WSW-1	EPA 504.1	462545	EPA 504.1	462614
92420643002	WSW-2	EPA 504.1	462545	EPA 504.1	462614
92420643003	WSW-3	EPA 504.1	462545	EPA 504.1	462614
92420643004	WSW-4	EPA 504.1	462827	EPA 504.1	462893
92420643005	WSW-DUP	EPA 504.1	462827	EPA 504.1	462893
92420643006	WSW-FB	EPA 504.1	462827	EPA 504.1	462893
92420643001	WSW-1	EPA 524.2	523011		
92420643002	WSW-2	EPA 524.2	523011		
92420643003	WSW-3	EPA 524.2	523011		
92420643004	WSW-4	EPA 524.2	523011		
92420643005	WSW-DUP	EPA 524.2	523011		
92420643006	WSW-FB	EPA 524.2	523011		
92420643007	WSW-TB	EPA 524.2	523011		
92420643001	WSW-1	EPA 8260B	462397		
92420643002	WSW-2	EPA 8260B	462397		
92420643003	WSW-3	EPA 8260B	462397		
92420643004	WSW-4	EPA 8260B	462397		
92420643005	WSW-DUP	EPA 8260B	462397		
92420643006	WSW-FB	EPA 8260B	462400		
92420643007	WSW-TB	EPA 8260B	462400		

**REPORT OF LABORATORY ANALYSIS**

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**CHAIN-OF-CUSTODY Analytical Request Document**

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY

**WO# : 92420643**

1 of 1



92420643

Company: **SCDHEC**

Billing Information:

Address: **2600 Bull St, Columbia SC**

Email To: **dunnra@dhcc.sc.gov**

Report To:

Site Collection Info/Address:

Copy To:

Customer Project Name/Number: **Steady Simmons**

State: **SC** County/City: **Jasper** Time Zone Collected: **[ ] PT [ ] MT [ ] CT [ ] ET**

Phone: \_\_\_\_\_  
Email: \_\_\_\_\_

Site/Facility ID #: **18856**

Compliance Monitoring?   
 [ ] Yes [ ] No

Collected By (print): **Shawn Sproff**

Purchase Order #: \_\_\_\_\_  
Quote #: \_\_\_\_\_

DW PWS ID #: \_\_\_\_\_  
DW Location Code: \_\_\_\_\_

Collected By (signature):

Turnaround Date Required:

Immediately Packed on Ice:   
 [ ] Yes [ ] No

Sample Disposal:   
 [ ] Dispose as appropriate [ ] Return   
 [ ] Archive: \_\_\_\_\_   
 [ ] Hold: \_\_\_\_\_

Rush:   
 [ ] Same Day [ ] Next Day   
 [ ] 2 Day [ ] 3 Day [ ] 4 Day [ ] 5 Day   
 (Expedite Charges Apply)

Field Filtered (if applicable):   
 [ ] Yes [ ] No   
 Analysis: \_\_\_\_\_

\* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start)		Composite End		Res Cl	# of Ctns	Analyses										Lab Profile/Line:								
			Date	Time	Date	Time			1	2	3	4	5	6	7	8	9	10		11	12						
WSW-1	DW	G	3/7/19	13:45			9	X	X	X																	
WSW-2	↑	↑	↑	13:50			9	X	X	X																	
WSW-3	↑	↑	↑	13:52			9	X	X	X																	
WSW-4	↑	↑	↑	13:55			9	X	X	X																	
WSW-5																											
WSW-6																											
WSW-7																											
WSW-8																											
WSW-9																											
WSW-DUP	DW	G	3/7	13:45			9	X	X	X																	

**BTEX NM+1,2 DCA 524.2**  
**7-Oxygenates + Ethanol 82608**  
**EOB 504.1**

Lab Sample Receipt Checklist:

Custody Seals Present/Intact	Y	N	NA
Custody Signatures Present	Y	N	NA
Collector Signature Present	Y	N	NA
Bottles Intact	Y	N	NA
Correct Bottles	Y	N	NA
Sufficient Volume	Y	N	NA
Samples Received on Ice	Y	N	NA
VOA - Headspace Acceptable	Y	N	NA
USDA Regulated Soils	Y	N	NA
Samples in Holding Time	Y	N	NA
Residual Chlorine Present	Y	N	NA
Cl Strips:			
Sample pH Acceptable	Y	N	NA
pH Strips:			
Sulfide Present	Y	N	NA
Lead Acetate Strips:			

LAB USE ONLY:  
Lab Sample # / Comments: **92420643**

Customer Remarks / Special Conditions / Possible Hazards:

Type of Ice Used:  Wet  Blue  Dry  None

Packing Material Used: \_\_\_\_\_

Radchem sample(s) screened (<500 cpm): Y N NA

SHORT HOLDS PRESENT (<72 hours): Y N  N/A

Lab Tracking #: **2343539**

Samples received via:  FEDEX  UPS  Client  Courier  Pace Courier

Lab Sample Temperature Info:  
Temp Blank Received: \_\_\_\_\_  
Therm ID#: **9220416 NA**  
Cooler 1 Temp Upon Receipt: **3.1** °C  
Cooler 1 Therm Corr. Factor: \_\_\_\_\_ °C  
Cooler 1 Corrected Temp: \_\_\_\_\_ °C  
Comments: **mtd 3-8-19**

Relinquished by/Company: (Signature)

Date/Time: **3/8/19 10:21**

Received by/Company: (Signature)

Date/Time: **3-8-19 10:21**

MTJL LAB-USE ONLY  
Table #:  
Acctnum:

Relinquished by/Company: (Signature)

Date/Time: **3-8-19 4:03**

Received by/Company: (Signature)

Date/Time: **3-8-19 16:13**

Template:  
Prelogin:

Trip Blank Received:  Y  N  NA  
 HCL  MeOH  TSP  Other

Relinquished by/Company: (Signature)

Date/Time:

Received by/Company: (Signature)

Date/Time:

PM:  
PB:

Non Conformance(s): YES / NO  
Page: **1**  
of: **2**

# WO#: 92420643

Page 22 of 22

**CHAIN-OF-CUSTODY Analytical Request Document**  
 Pace Analytical  
 Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE O  
 PH: AMB Due Date: 03/19/19  
 CLIENT: 92-SCDHEC

Company: SCDHEC  
 Address: 2600 Bull St, Columbia, SC  
 Report To: \_\_\_\_\_ Email To: dunnra@dhec.sc.gov  
 Copy To: \_\_\_\_\_ Site Collection Info/Address: \_\_\_\_\_  
 Customer Project Name/Number: Steady Simmons  
 State: SC County/City: Jasper Time Zone Collected: [ ] PT [ ] MT [ ] CT [ ] ET  
 Phone: \_\_\_\_\_ Site/Facility ID #: 18856 Compliance Monitoring?  Yes  No  
 Email: \_\_\_\_\_  
 Collected By (print): Shawn Spratt Purchase Order #: \_\_\_\_\_ DW PWS ID #: \_\_\_\_\_  
 Quote #: \_\_\_\_\_ DW Location Code: \_\_\_\_\_  
 Collected By (signature): [Signature] Turnaround Date Required: \_\_\_\_\_ Immediately Packed on Ice:  Yes  No  
 Sample Disposal:  Dispose as appropriate  Return  Archive  Hold  
 Rush:  Same Day  Next Day  2 Day  3 Day  4 Day  5 Day (Expedite Charges Apply)  
 Field Filtered (if applicable):  Yes  No  
 Analysis: \_\_\_\_\_

Container Preservative Type **		Lab Project Manager:	
<u>3</u>	<u>3</u>	<u>8</u>	

\*\* Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other

Analyses	Lab Profile/Line:
<u>BTEX NM + Ld DCA 54.2</u> <u>7-Oxybenzenes + Ethanol 84.68</u> <u>EDB 504.1</u>	Lab Sample Receipt Checklist:
	Custody Seals Present/Intact <u>Y</u> N <u>(C)</u>
	Custody Signatures Present <u>Y</u> N <u>(C)</u>
	Collector Signature Present <u>(C)</u> N NA
	Bottles Intact <u>(C)</u> N NA
	Correct Bottles <u>(C)</u> N NA
	Sufficient Volume <u>(C)</u> N NA
	Samples Received on Ice <u>(C)</u> N NA
	VOA - Headspace Acceptable <u>(C)</u> N NA
	USDA Regulated Soils <u>Y</u> N <u>(C)</u>
	Samples in Holding Time <u>Y</u> N <u>(C)</u>
	Residual Chlorine Present <u>Y</u> N <u>(C)</u>
	Cl Strips: _____
	Sample pH Acceptable <u>Y</u> N <u>(C)</u>
	pH Strips: _____
Sulfide Present <u>Y</u> N <u>(C)</u>	
Lead Acetate Strips: _____	
LAB USE ONLY: Lab Sample # / Comments:	
	<u>field blank - 606</u>
	<u>trip blank - 007</u>

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start)		Composite End		Res CI	# of Ctns
			Date	Time	Date	Time		
<u>WSW-FB</u>	<u>DW</u>	<u>G</u>	<u>3/7</u>	<u>13:38</u>			<u>9</u>	
<u>WSW-TB</u>	<u>DW</u>	<u>G</u>	<u>3/7</u>	<u>13:39</u>			<u>6</u>	

Customer Remarks / Special Conditions / Possible Hazards: \_\_\_\_\_  
 Type of Ice Used: Wet Blue Dry None  
 Packing Material Used: \_\_\_\_\_  
 Radchem sample(s) screened (<500 cpm): Y N NA

SHORT HOLDS PRESENT (<72 hours): Y N (C)  
 Lab Tracking #: 2338863  
 Samples received via: FEDEX UPS Client Courier Pace Courier  
 Lab Sample Temperature Info:  
 Temp Blank Received: Y N (C)  
 Therm ID#: 477046  
 Cooler 1 Temp Upon Receipt: 3 °C  
 Cooler 1 Therm Corr. Factor: \_\_\_\_\_ °C  
 Cooler 1 Corrected Temp: \_\_\_\_\_ °C  
 Comments: m 17 3-8-19

Relinquished by/Company: (Signature) <u>[Signature]</u> MECI	Date/Time: <u>3/8/19 10:21</u>	Received by/Company: (Signature) <u>[Signature]</u> Pace	Date/Time: <u>3-8-19 10:21</u>
Relinquished by/Company: (Signature) <u>[Signature]</u> Pace	Date/Time: <u>3-8-19 14:13</u>	Received by/Company: (Signature) <u>[Signature]</u> Pace	Date/Time: <u>3-8-19 16:13</u>
Relinquished by/Company: (Signature) _____	Date/Time: _____	Received by/Company: (Signature) _____	Date/Time: _____

MTJL LAB USE ONLY  
 Table #: \_\_\_\_\_  
 Acctnum: \_\_\_\_\_  
 Template: \_\_\_\_\_  
 Prelogin: \_\_\_\_\_  
 PM: \_\_\_\_\_  
 PB: \_\_\_\_\_  
 Non Conformance(s): YES / NO  
 Page: 2 of 2

March 15, 2019



Robert Dunn  
SCHDEC  
2600 Bull St  
Columbia, SC 29201

RE: Project: Steady Simmons 18855/58463  
Pace Project No.: 92420649

Dear Robert Dunn:

Enclosed are the analytical results for sample(s) received by the laboratory on March 08, 2019. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

*Angela M. Baioni*

Angela Baioni  
angela.baioni@pacelabs.com  
(704)875-9092  
Project Manager

Enclosures



#### REPORT OF LABORATORY ANALYSIS

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### CERTIFICATIONS

Project: Steady Simmons 18855/58463  
Pace Project No.: 92420649

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**Charlotte Certification IDs**  
9800 Kinsey Ave. Ste 100, Huntersville, NC 28078  
Louisiana/NELAP Certification # LA170028  
North Carolina Drinking Water Certification #: 37706  
North Carolina Field Services Certification #: 5342  
North Carolina Wastewater Certification #: 12

South Carolina Certification #: 99006001  
Florida/NELAP Certification #: E87627  
Kentucky UST Certification #: 84  
Virginia/VELAP Certification #: 460221

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### REPORT OF LABORATORY ANALYSIS

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### SAMPLE SUMMARY

Project: Steady Simmons 18855/58463  
Pace Project No.: 92420649

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92420649001	MW-1R	Water	03/07/19 13:37	03/08/19 10:21
92420649002	MW-2	Water	03/07/19 13:19	03/08/19 10:21
92420649003	MW-3	Water	03/07/19 12:39	03/08/19 10:21
92420649004	MW-4	Water	03/07/19 10:36	03/08/19 10:21
92420649005	MW-5	Water	03/07/19 11:32	03/08/19 10:21
92420649006	MW-6	Water	03/07/19 11:24	03/08/19 10:21
92420649007	MW-7	Water	03/07/19 11:17	03/08/19 10:21
92420649008	MW-8	Water	03/07/19 10:58	03/08/19 10:21
92420649009	MW-9	Water	03/07/19 10:30	03/08/19 10:21
92420649010	MW-10	Water	03/07/19 12:19	03/08/19 10:21
92420649011	MW-11	Water	03/07/19 11:39	03/08/19 10:21
92420649012	MW-12	Water	03/07/19 11:07	03/08/19 10:21
92420649013	MW-13	Water	03/07/19 10:51	03/08/19 10:21
92420649014	MW-14	Water	03/07/19 12:35	03/08/19 10:21
92420649015	MW-15	Water	03/07/19 12:59	03/08/19 10:21
92420649016	MW-16	Water	03/07/19 11:55	03/08/19 10:21
92420649017	MW-17	Water	03/07/19 10:18	03/08/19 10:21
92420649018	DW-1	Water	03/07/19 10:51	03/08/19 10:21
92420649019	DW-2	Water	03/07/19 10:14	03/08/19 10:21
92420649020	DW-3	Water	03/07/19 12:03	03/08/19 10:21
92420649021	DW-4	Water	03/07/19 11:22	03/08/19 10:21
92420649022	DW-5	Water	03/07/19 13:20	03/08/19 10:21
92420649023	DW-6	Water	03/07/19 12:31	03/08/19 10:21
92420649024	DW-7	Water	03/07/19 13:04	03/08/19 10:21
92420649025	DW-8	Water	03/07/19 10:12	03/08/19 10:21
92420649026	SW-1	Water	03/07/19 13:27	03/08/19 10:21
92420649027	SW-2	Water	03/07/19 13:29	03/08/19 10:21
92420649028	DUP-1	Water	03/07/19 12:19	03/08/19 10:21
92420649029	DUP-2	Water	03/07/19 12:35	03/08/19 10:21
92420649030	FB	Water	03/07/19 13:35	03/08/19 10:21
92420649031	TB-1	Water	03/07/19 13:35	03/08/19 10:21
92420649032	TB-2	Water	03/07/19 13:35	03/08/19 10:21

### REPORT OF LABORATORY ANALYSIS

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**SAMPLE ANALYTE COUNT**

Project: Steady Simmons 18855/58463  
 Pace Project No.: 92420649

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92420649001	MW-1R	EPA 8011	BAJ	2	PASI-C
		EPA 8260B	SAS	20	PASI-C
92420649002	MW-2	EPA 8011	BAJ	2	PASI-C
		EPA 8260B	NSCQ	20	PASI-C
92420649003	MW-3	EPA 8011	BAJ	2	PASI-C
		EPA 8260B	CL	20	PASI-C
92420649004	MW-4	EPA 8011	BAJ	2	PASI-C
		EPA 8260B	SAS	20	PASI-C
92420649005	MW-5	EPA 8011	BAJ	2	PASI-C
		EPA 8260B	SAS	20	PASI-C
92420649006	MW-6	EPA 8011	BAJ	2	PASI-C
		EPA 8260B	CL	20	PASI-C
92420649007	MW-7	EPA 8011	BAJ	2	PASI-C
		EPA 8260B	CL	20	PASI-C
92420649008	MW-8	EPA 8011	BAJ	2	PASI-C
		EPA 8260B	CL	20	PASI-C
92420649009	MW-9	EPA 8011	BAJ	2	PASI-C
		EPA 8260B	CL	20	PASI-C
92420649010	MW-10	EPA 8011	BAJ	2	PASI-C
		EPA 8260B	CL	20	PASI-C
92420649011	MW-11	EPA 8011	BAJ	2	PASI-C
		EPA 8260B	SAS	20	PASI-C
92420649012	MW-12	EPA 8011	BAJ	2	PASI-C
		EPA 8260B	CL	20	PASI-C
92420649013	MW-13	EPA 8011	BAJ	2	PASI-C
		EPA 8260B	CL	20	PASI-C
92420649014	MW-14	EPA 8011	BAJ	2	PASI-C
		EPA 8260B	CL	20	PASI-C
92420649015	MW-15	EPA 8011	BAJ	2	PASI-C
		EPA 8260B	SAS	20	PASI-C
92420649016	MW-16	EPA 8011	BAJ	2	PASI-C
		EPA 8260B	CL	20	PASI-C
92420649017	MW-17	EPA 8011	BAJ	2	PASI-C
		EPA 8260B	CL	20	PASI-C
92420649018	DW-1	EPA 8011	BAJ	2	PASI-C
		EPA 8260B	CL	20	PASI-C
92420649019	DW-2	EPA 8011	BAJ	2	PASI-C

**REPORT OF LABORATORY ANALYSIS**

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**SAMPLE ANALYTE COUNT**

Project: Steady Simmons 18855/58463  
Pace Project No.: 92420649

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92420649020	DW-3	EPA 8260B	CL	20	PASI-C
		EPA 8011	BAJ	2	PASI-C
92420649021	DW-4	EPA 8260B	CL	20	PASI-C
		EPA 8011	BAJ	2	PASI-C
92420649022	DW-5	EPA 8260B	CL	20	PASI-C
		EPA 8011	BAJ	2	PASI-C
92420649023	DW-6	EPA 8260B	CL	20	PASI-C
		EPA 8011	BAJ	2	PASI-C
92420649024	DW-7	EPA 8260B	CL	20	PASI-C
		EPA 8011	BAJ	2	PASI-C
92420649025	DW-8	EPA 8260B	CL	20	PASI-C
		EPA 8011	BAJ	2	PASI-C
92420649026	SW-1	EPA 8260B	CL	20	PASI-C
		EPA 8011	BAJ	2	PASI-C
92420649027	SW-2	EPA 8260B	NSCQ	20	PASI-C
		EPA 8011	BAJ	2	PASI-C
92420649028	DUP-1	EPA 8260B	SAS	20	PASI-C
		EPA 8011	BAJ	2	PASI-C
92420649029	DUP-2	EPA 8260B	CL	20	PASI-C
		EPA 8011	BAJ	2	PASI-C
92420649030	FB	EPA 8260B	CL	20	PASI-C
		EPA 8011	BAJ	2	PASI-C
92420649031	TB-1	EPA 8260B	CL	20	PASI-C
		EPA 8011	BAJ	2	PASI-C
92420649032	TB-2	EPA 8260B	CL	20	PASI-C
		EPA 8011	BAJ	2	PASI-C

**REPORT OF LABORATORY ANALYSIS**

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### SUMMARY OF DETECTION

Project: Steady Simmons 18855/58463  
Pace Project No.: 92420649

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
<b>92420649001</b>	<b>MW-1R</b>					
EPA 8260B	Benzene	5.2	ug/L	5.0	03/09/19 04:57	
EPA 8260B	Ethylbenzene	59.4	ug/L	5.0	03/09/19 04:57	
EPA 8260B	Naphthalene	94.6	ug/L	5.0	03/09/19 04:57	
EPA 8260B	Toluene	14.7	ug/L	5.0	03/09/19 04:57	
EPA 8260B	Xylene (Total)	166	ug/L	5.0	03/09/19 04:57	
EPA 8260B	m&p-Xylene	107	ug/L	10.0	03/09/19 04:57	
EPA 8260B	o-Xylene	59.1	ug/L	5.0	03/09/19 04:57	
<b>92420649002</b>	<b>MW-2</b>					
EPA 8011	1,2-Dibromoethane (EDB)	1.4	ug/L	0.039	03/13/19 17:37	
EPA 8260B	Benzene	350	ug/L	100	03/10/19 03:18	
EPA 8260B	Ethylbenzene	737	ug/L	100	03/10/19 03:18	
EPA 8260B	Naphthalene	298	ug/L	100	03/10/19 03:18	
EPA 8260B	Toluene	3630	ug/L	100	03/10/19 03:18	
EPA 8260B	Xylene (Total)	5450	ug/L	100	03/10/19 03:18	
EPA 8260B	m&p-Xylene	3480	ug/L	200	03/10/19 03:18	
EPA 8260B	o-Xylene	1960	ug/L	100	03/10/19 03:18	

### REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: Steady Simmons 18855/58463  
Pace Project No.: 92420649

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**Method:** EPA 8011  
**Description:** 8011 GCS EDB and DBCP  
**Client:** SCDHEC  
**Date:** March 15, 2019

**General Information:**

30 samples were analyzed for EPA 8011. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

**Hold Time:**

The samples were analyzed within the method required hold times with any exceptions noted below.

**Sample Preparation:**

The samples were prepared in accordance with EPA 8011 with any exceptions noted below.

**Initial Calibrations (including MS Tune as applicable):**

All criteria were within method requirements with any exceptions noted below.

**Continuing Calibration:**

All criteria were within method requirements with any exceptions noted below.

**Surrogates:**

All surrogates were within QC limits with any exceptions noted below.

**Method Blank:**

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

**Laboratory Control Spike:**

All laboratory control spike compounds were within QC limits with any exceptions noted below.

**Matrix Spikes:**

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

**Duplicate Sample:**

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

**Additional Comments:**

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: Steady Simmons 18855/58463  
Pace Project No.: 92420649

---

**Method:** EPA 8260B  
**Description:** 8260 MSV Low Level SC  
**Client:** SCDHEC  
**Date:** March 15, 2019

**General Information:**

2 samples were analyzed for EPA 8260B. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

**Hold Time:**

The samples were analyzed within the method required hold times with any exceptions noted below.

**Initial Calibrations (including MS Tune as applicable):**

All criteria were within method requirements with any exceptions noted below.

**Continuing Calibration:**

All criteria were within method requirements with any exceptions noted below.

**Internal Standards:**

All internal standards were within QC limits with any exceptions noted below.

**Surrogates:**

All surrogates were within QC limits with any exceptions noted below.

**Method Blank:**

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

**Laboratory Control Spike:**

All laboratory control spike compounds were within QC limits with any exceptions noted below.

**Matrix Spikes:**

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 462397

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 92420643005

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 2517065)
  - tert-Butyl Alcohol
  - tert-Butyl Formate
- MSD (Lab ID: 2517066)
  - tert-Butyl Alcohol
  - tert-Butyl Formate

QC Batch: 462400

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 92420664008

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MSD (Lab ID: 2517070)
  - Naphthalene
  - Toluene

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## PROJECT NARRATIVE

Project: Steady Simmons 18855/58463  
Pace Project No.: 92420649

---

**Method:** EPA 8260B  
**Description:** 8260 MSV Low Level SC  
**Client:** SCDHEC  
**Date:** March 15, 2019

QC Batch: 462400

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 92420664008

P5: The EPA or method required sample preservation degrades this compound, therefore acceptable recoveries may not be achieved in sample matrix spikes.

- MS (Lab ID: 2517069)
  - tert-Butyl Formate
- MSD (Lab ID: 2517070)
  - tert-Butyl Formate

**Additional Comments:**

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## PROJECT NARRATIVE

Project: Steady Simmons 18855/58463  
Pace Project No.: 92420649

---

**Method:** EPA 8260B  
**Description:** 8260 MSV  
**Client:** SCDHEC  
**Date:** March 15, 2019

### General Information:

30 samples were analyzed for EPA 8260B. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

### Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

### Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

### Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

### Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

### Surrogates:

All surrogates were within QC limits with any exceptions noted below.

### Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

### Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

QC Batch: 462370

L1: Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results for this analyte in associated samples may be biased high.

- LCS (Lab ID: 2516977)
- tert-Butyl Formate

### Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 462369

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 92420649020

P5: The EPA or method required sample preservation degrades this compound, therefore acceptable recoveries may not be achieved in sample matrix spikes.

- MS (Lab ID: 2516974)
- tert-Butyl Formate
- MSD (Lab ID: 2516975)
- tert-Butyl Formate

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## PROJECT NARRATIVE

Project: Steady Simmons 18855/58463  
Pace Project No.: 92420649

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**Method:** EPA 8260B  
**Description:** 8260 MSV  
**Client:** SCDHEC  
**Date:** March 15, 2019

### QC Batch: 462370

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 92420649021

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 2516978)
  - 3,3-Dimethyl-1-Butanol
  - Diisopropyl ether
  - Ethyl-tert-butyl ether
  - tert-Amyl Alcohol
  - tert-Amylmethyl ether
- MSD (Lab ID: 2516979)
  - 3,3-Dimethyl-1-Butanol
  - tert-Amyl Alcohol

P5: The EPA or method required sample preservation degrades this compound, therefore acceptable recoveries may not be achieved in sample matrix spikes.

- MS (Lab ID: 2516978)
  - tert-Butyl Formate
- MSD (Lab ID: 2516979)
  - tert-Butyl Formate

### QC Batch: 462371

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 92420652015

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 2516984)
  - tert-Butyl Alcohol
- MSD (Lab ID: 2516985)
  - tert-Butyl Alcohol

P5: The EPA or method required sample preservation degrades this compound, therefore acceptable recoveries may not be achieved in sample matrix spikes.

- MS (Lab ID: 2516984)
  - tert-Butyl Formate
- MSD (Lab ID: 2516985)
  - tert-Butyl Formate

### QC Batch: 462393

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 92420652009

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 2517039)
  - Toluene
  - tert-Butyl Alcohol
  - tert-Butyl Formate
- MSD (Lab ID: 2517040)
  - Toluene
  - tert-Butyl Alcohol
  - tert-Butyl Formate

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## PROJECT NARRATIVE

Project: Steady Simmons 18855/58463  
Pace Project No.: 92420649

---

**Method:** EPA 8260B  
**Description:** 8260 MSV  
**Client:** SCDHEC  
**Date:** March 15, 2019

### Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

## REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: Steady Simmons 18855/58463  
Pace Project No.: 92420649

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>Sample: MW-1R</b>									
Lab ID: 92420649001 Collected: 03/07/19 13:37 Received: 03/08/19 10:21 Matrix: Water									
Analytical Method: EPA 8011 Preparation Method: EPA 8011									
<b>8011 GCS EDB and DBCP</b>									
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	03/11/19 11:44	03/12/19 01:24	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	99	%	60-140		1	03/11/19 11:44	03/12/19 01:24	301-79-56	
<b>8260 MSV</b>									
Analytical Method: EPA 8260B									
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		03/09/19 04:57	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		03/09/19 04:57	994-05-8	
Benzene	5.2	ug/L	5.0	1.7	1		03/09/19 04:57	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		03/09/19 04:57	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	91.0	1		03/09/19 04:57	75-85-0	
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		03/09/19 04:57	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		03/09/19 04:57	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	3.5	1		03/09/19 04:57	108-20-3	
Ethanol	ND	ug/L	200	144	1		03/09/19 04:57	64-17-5	
Ethylbenzene	59.4	ug/L	5.0	1.8	1		03/09/19 04:57	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		03/09/19 04:57	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		03/09/19 04:57	1634-04-4	
Naphthalene	94.6	ug/L	5.0	2.1	1		03/09/19 04:57	91-20-3	
Toluene	14.7	ug/L	5.0	2.0	1		03/09/19 04:57	108-88-3	
Xylene (Total)	166	ug/L	5.0	5.0	1		03/09/19 04:57	1330-20-7	
m&p-Xylene	107	ug/L	10.0	4.1	1		03/09/19 04:57	179601-23-1	
o-Xylene	59.1	ug/L	5.0	2.0	1		03/09/19 04:57	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	98	%	70-130		1		03/09/19 04:57	460-00-4	
1,2-Dichloroethane-d4 (S)	94	%	70-130		1		03/09/19 04:57	17060-07-0	
Toluene-d8 (S)	101	%	70-130		1		03/09/19 04:57	2037-26-5	

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**ANALYTICAL RESULTS**

Project: Steady Simmons 18855/58463  
 Pace Project No.: 92420649

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>Sample: MW-2</b>									
Lab ID: 92420649002 Collected: 03/07/19 13:19 Received: 03/08/19 10:21 Matrix: Water									
Analytical Method: EPA 8011 Preparation Method: EPA 8011									
8011 GCS EDB and DBCP									
1,2-Dibromoethane (EDB)	1.4	ug/L	0.039	0.039	2	03/12/19 13:27	03/13/19 17:37	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	121	%	60-140		2	03/12/19 13:27	03/13/19 17:37	301-79-56	
Analytical Method: EPA 8260B									
8260 MSV									
tert-Amyl Alcohol	ND	ug/L	2000	1310	20		03/10/19 03:18	75-85-4	
tert-Amylmethyl ether	ND	ug/L	200	60.8	20		03/10/19 03:18	994-05-8	
Benzene	350	ug/L	100	34.8	20		03/10/19 03:18	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	2000	1080	20		03/10/19 03:18	624-95-3	
tert-Butyl Alcohol	ND	ug/L	2000	1820	20		03/10/19 03:18	75-65-0	
tert-Butyl Formate	ND	ug/L	1000	482	20		03/10/19 03:18	762-75-4	
1,2-Dichloroethane	ND	ug/L	100	41.2	20		03/10/19 03:18	107-06-2	
Diisopropyl ether	ND	ug/L	100	69.8	20		03/10/19 03:18	108-20-3	
Ethanol	ND	ug/L	4000	2880	20		03/10/19 03:18	64-17-5	
Ethylbenzene	737	ug/L	100	36.8	20		03/10/19 03:18	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	200	169	20		03/10/19 03:18	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	100	62.0	20		03/10/19 03:18	1634-04-4	
Naphthalene	298	ug/L	100	41.8	20		03/10/19 03:18	91-20-3	
Toluene	3630	ug/L	100	40.2	20		03/10/19 03:18	108-88-3	
Xylene (Total)	5450	ug/L	100	100	20		03/10/19 03:18	1330-20-7	
m&p-Xylene	3480	ug/L	200	82.2	20		03/10/19 03:18	179601-23-1	
o-Xylene	1960	ug/L	100	40.8	20		03/10/19 03:18	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	100	%	70-130		20		03/10/19 03:18	460-00-4	
1,2-Dichloroethane-d4 (S)	95	%	70-130		20		03/10/19 03:18	17060-07-0	
Toluene-d8 (S)	102	%	70-130		20		03/10/19 03:18	2037-26-5	

**REPORT OF LABORATORY ANALYSIS**

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### ANALYTICAL RESULTS

Project: Steady Simmons 18855/58463  
Pace Project No.: 92420649

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Sample: MW-3 Lab ID: 92420649003 Collected: 03/07/19 12:39 Received: 03/08/19 10:21 Matrix: Water									
Analytical Method: EPA 8011 Preparation Method: EPA 8011									
<b>8011 GCS EDB and DBCP</b>									
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	03/12/19 13:27	03/13/19 00:32	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	99	%	60-140		1	03/12/19 13:27	03/13/19 00:32	301-79-56	
Analytical Method: EPA 8260B									
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		03/09/19 14:28	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		03/09/19 14:28	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		03/09/19 14:28	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		03/09/19 14:28	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	91.0	1		03/09/19 14:28	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		03/09/19 14:28	762-75-4	L1
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		03/09/19 14:28	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	3.5	1		03/09/19 14:28	108-20-3	
Ethanol	ND	ug/L	200	144	1		03/09/19 14:28	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.8	1		03/09/19 14:28	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		03/09/19 14:28	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		03/09/19 14:28	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.1	1		03/09/19 14:28	91-20-3	
Toluene	ND	ug/L	5.0	2.0	1		03/09/19 14:28	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		03/09/19 14:28	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	4.1	1		03/09/19 14:28	179601-23-1	
o-Xylene	ND	ug/L	5.0	2.0	1		03/09/19 14:28	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	102	%	70-130		1		03/09/19 14:28	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%	70-130		1		03/09/19 14:28	17060-07-0	
Toluene-d8 (S)	106	%	70-130		1		03/09/19 14:28	2037-26-5	

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### ANALYTICAL RESULTS

Project: Steady Simmons 18855/58463  
Pace Project No.: 92420649

Sample: MW-4 Lab ID: 92420649004 Collected: 03/07/19 10:36 Received: 03/08/19 10:21 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8011 GCS EDB and DBCP</b>									
Analytical Method: EPA 8011 Preparation Method: EPA 8011									
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	03/12/19 13:27	03/13/19 01:31	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	98	%	60-140		1	03/12/19 13:27	03/13/19 01:31	301-79-56	
<b>8260 MSV</b>									
Analytical Method: EPA 8260B									
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		03/09/19 02:57	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		03/09/19 02:57	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		03/09/19 02:57	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		03/09/19 02:57	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	91.0	1		03/09/19 02:57	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		03/09/19 02:57	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		03/09/19 02:57	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	3.5	1		03/09/19 02:57	108-20-3	
Ethanol	ND	ug/L	200	144	1		03/09/19 02:57	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.8	1		03/09/19 02:57	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		03/09/19 02:57	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		03/09/19 02:57	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.1	1		03/09/19 02:57	91-20-3	
Toluene	ND	ug/L	5.0	2.0	1		03/09/19 02:57	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		03/09/19 02:57	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	4.1	1		03/09/19 02:57	179601-23-1	
o-Xylene	ND	ug/L	5.0	2.0	1		03/09/19 02:57	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	103	%	70-130		1		03/09/19 02:57	460-00-4	
1,2-Dichloroethane-d4 (S)	99	%	70-130		1		03/09/19 02:57	17060-07-0	
Toluene-d8 (S)	101	%	70-130		1		03/09/19 02:57	2037-26-5	

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**ANALYTICAL RESULTS**

Project: Steady Simmons 18855/58463  
Pace Project No.: 92420649

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>Sample: MW-5</b>									
Lab ID: 92420649005 Collected: 03/07/19 11:32 Received: 03/08/19 10:21 Matrix: Water									
Analytical Method: EPA 8011 Preparation Method: EPA 8011									
<b>8011 GCS EDB and DBCP</b>									
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	03/12/19 13:27	03/13/19 01:50	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	103	%	60-140		1	03/12/19 13:27	03/13/19 01:50	301-79-56	
<b>8260 MSV</b>									
Analytical Method: EPA 8260B									
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		03/09/19 03:14	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		03/09/19 03:14	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		03/09/19 03:14	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		03/09/19 03:14	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	91.0	1		03/09/19 03:14	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		03/09/19 03:14	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		03/09/19 03:14	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	3.5	1		03/09/19 03:14	108-20-3	
Ethanol	ND	ug/L	200	144	1		03/09/19 03:14	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.8	1		03/09/19 03:14	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		03/09/19 03:14	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		03/09/19 03:14	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.1	1		03/09/19 03:14	91-20-3	
Toluene	ND	ug/L	5.0	2.0	1		03/09/19 03:14	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		03/09/19 03:14	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	4.1	1		03/09/19 03:14	179601-23-1	
o-Xylene	ND	ug/L	5.0	2.0	1		03/09/19 03:14	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	99	%	70-130		1		03/09/19 03:14	460-00-4	
1,2-Dichloroethane-d4 (S)	99	%	70-130		1		03/09/19 03:14	17060-07-0	
Toluene-d8 (S)	99	%	70-130		1		03/09/19 03:14	2037-26-5	

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### ANALYTICAL RESULTS

Project: Steady Simmons 18855/58463  
Pace Project No.: 92420649

Sample: MW-6 Lab ID: 92420649006 Collected: 03/07/19 11:24 Received: 03/08/19 10:21 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8011 GCS EDB and DBCP</b>									
Analytical Method: EPA 8011 Preparation Method: EPA 8011									
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	03/12/19 13:27	03/13/19 02:10	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	101	%	60-140		1	03/12/19 13:27	03/13/19 02:10	301-79-56	
<b>8260 MSV</b>									
Analytical Method: EPA 8260B									
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		03/09/19 08:29	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		03/09/19 08:29	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		03/09/19 08:29	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		03/09/19 08:29	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	91.0	1		03/09/19 08:29	75-85-0	
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		03/09/19 08:29	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		03/09/19 08:29	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	3.5	1		03/09/19 08:29	108-20-3	
Ethanol	ND	ug/L	200	144	1		03/09/19 08:29	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.8	1		03/09/19 08:29	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		03/09/19 08:29	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		03/09/19 08:29	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.1	1		03/09/19 08:29	91-20-3	
Toluene	ND	ug/L	5.0	2.0	1		03/09/19 08:29	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		03/09/19 08:29	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	4.1	1		03/09/19 08:29	179601-23-1	
o-Xylene	ND	ug/L	5.0	2.0	1		03/09/19 08:29	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	106	%	70-130		1		03/09/19 08:29	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%	70-130		1		03/09/19 08:29	17060-07-0	
Toluene-d8 (S)	106	%	70-130		1		03/09/19 08:29	2037-26-5	

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### ANALYTICAL RESULTS

Project: Steady Simmons 18855/58463  
Pace Project No.: 92420649

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>Sample: MW-7      Lab ID: 92420649007      Collected: 03/07/19 11:17      Received: 03/08/19 10:21      Matrix: Water</b>									
<b>8011 GCS EDB and DBCP      Analytical Method: EPA 8011      Preparation Method: EPA 8011</b>									
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	03/12/19 13:27	03/13/19 02:29	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	108	%	60-140		1	03/12/19 13:27	03/13/19 02:29	301-79-56	
<b>8260 MSV      Analytical Method: EPA 8260B</b>									
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		03/09/19 08:47	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		03/09/19 08:47	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		03/09/19 08:47	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		03/09/19 08:47	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	91.0	1		03/09/19 08:47	75-85-0	
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		03/09/19 08:47	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		03/09/19 08:47	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	3.5	1		03/09/19 08:47	108-20-3	
Ethanol	ND	ug/L	200	144	1		03/09/19 08:47	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.8	1		03/09/19 08:47	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		03/09/19 08:47	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		03/09/19 08:47	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.1	1		03/09/19 08:47	91-20-3	
Toluene	ND	ug/L	5.0	2.0	1		03/09/19 08:47	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		03/09/19 08:47	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	4.1	1		03/09/19 08:47	179601-23-1	
o-Xylene	ND	ug/L	5.0	2.0	1		03/09/19 08:47	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	101	%	70-130		1		03/09/19 08:47	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%	70-130		1		03/09/19 08:47	17060-07-0	
Toluene-d8 (S)	105	%	70-130		1		03/09/19 08:47	2037-26-5	

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### ANALYTICAL RESULTS

Project: Steady Simmons 18855/58463  
Pace Project No.: 92420649

Sample: MW-8      Lab ID: 92420649008      Collected: 03/07/19 10:58      Received: 03/08/19 10:21      Matrix: Water									
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8011 GCS EDB and DBCP</b> Analytical Method: EPA 8011      Preparation Method: EPA 8011									
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	03/12/19 13:27	03/13/19 02:49	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	101	%	60-140		1	03/12/19 13:27	03/13/19 02:49	301-79-56	
<b>8260 MSV</b> Analytical Method: EPA 8260B									
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		03/09/19 09:05	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		03/09/19 09:05	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		03/09/19 09:05	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		03/09/19 09:05	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	91.0	1		03/09/19 09:05	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		03/09/19 09:05	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		03/09/19 09:05	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	3.5	1		03/09/19 09:05	108-20-3	
Ethanol	ND	ug/L	200	144	1		03/09/19 09:05	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.8	1		03/09/19 09:05	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		03/09/19 09:05	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		03/09/19 09:05	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.1	1		03/09/19 09:05	91-20-3	
Toluene	ND	ug/L	5.0	2.0	1		03/09/19 09:05	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		03/09/19 09:05	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	4.1	1		03/09/19 09:05	179601-23-1	
o-Xylene	ND	ug/L	5.0	2.0	1		03/09/19 09:05	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	101	%	70-130		1		03/09/19 09:05	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%	70-130		1		03/09/19 09:05	17060-07-0	
Toluene-d8 (S)	106	%	70-130		1		03/09/19 09:05	2037-26-5	

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### ANALYTICAL RESULTS

Project: Steady Simmons 18855/58463

Pace Project No.: 92420649

Sample: MW-9 Lab ID: 92420649009 Collected: 03/07/19 10:30 Received: 03/08/19 10:21 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8011 GCS EDB and DBCP</b>									
Analytical Method: EPA 8011 Preparation Method: EPA 8011									
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	0.019	1	03/12/19 13:27	03/13/19 03:08	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	98	%	60-140		1	03/12/19 13:27	03/13/19 03:08	301-79-56	
<b>8260 MSV</b>									
Analytical Method: EPA 8260B									
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		03/09/19 09:23	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		03/09/19 09:23	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		03/09/19 09:23	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		03/09/19 09:23	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	91.0	1		03/09/19 09:23	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		03/09/19 09:23	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		03/09/19 09:23	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	3.5	1		03/09/19 09:23	108-20-3	
Ethanol	ND	ug/L	200	144	1		03/09/19 09:23	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.8	1		03/09/19 09:23	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		03/09/19 09:23	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		03/09/19 09:23	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.1	1		03/09/19 09:23	91-20-3	
Toluene	ND	ug/L	5.0	2.0	1		03/09/19 09:23	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		03/09/19 09:23	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	4.1	1		03/09/19 09:23	179601-23-1	
o-Xylene	ND	ug/L	5.0	2.0	1		03/09/19 09:23	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	102	%	70-130		1		03/09/19 09:23	460-00-4	
1,2-Dichloroethane-d4 (S)	98	%	70-130		1		03/09/19 09:23	17060-07-0	
Toluene-d8 (S)	107	%	70-130		1		03/09/19 09:23	2037-26-5	

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### ANALYTICAL RESULTS

Project: Steady Simmons 18855/58463

Pace Project No.: 92420649

Sample: MW-10 Lab ID: 92420649010 Collected: 03/07/19 12:19 Received: 03/08/19 10:21 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8011 GCS EDB and DBCP</b>			Analytical Method: EPA 8011 Preparation Method: EPA 8011						
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	03/12/19 13:27	03/13/19 03:28	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	98	%	60-140		1	03/12/19 13:27	03/13/19 03:28	301-79-56	
<b>8260 MSV</b>			Analytical Method: EPA 8260B						
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		03/09/19 09:41	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		03/09/19 09:41	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		03/09/19 09:41	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		03/09/19 09:41	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	91.0	1		03/09/19 09:41	75-85-0	
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		03/09/19 09:41	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		03/09/19 09:41	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	3.5	1		03/09/19 09:41	108-20-3	
Ethanol	ND	ug/L	200	144	1		03/09/19 09:41	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.8	1		03/09/19 09:41	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		03/09/19 09:41	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		03/09/19 09:41	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.1	1		03/09/19 09:41	91-20-3	
Toluene	ND	ug/L	5.0	2.0	1		03/09/19 09:41	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		03/09/19 09:41	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	4.1	1		03/09/19 09:41	179601-23-1	
o-Xylene	ND	ug/L	5.0	2.0	1		03/09/19 09:41	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	101	%	70-130		1		03/09/19 09:41	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	70-130		1		03/09/19 09:41	17060-07-0	
Toluene-d8 (S)	105	%	70-130		1		03/09/19 09:41	2037-26-5	

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### ANALYTICAL RESULTS

Project: Steady Simmons 18855/58463  
Pace Project No.: 92420649

Sample: MW-11 Lab ID: 92420649011 Collected: 03/07/19 11:39 Received: 03/08/19 10:21 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8011 GCS EDB and DBCP</b>									
Analytical Method: EPA 8011 Preparation Method: EPA 8011									
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	03/12/19 13:27	03/13/19 03:47	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	98	%	60-140		1	03/12/19 13:27	03/13/19 03:47	301-79-56	
<b>8260 MSV</b>									
Analytical Method: EPA 8260B									
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		03/09/19 03:48	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		03/09/19 03:48	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		03/09/19 03:48	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		03/09/19 03:48	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	91.0	1		03/09/19 03:48	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		03/09/19 03:48	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		03/09/19 03:48	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	3.5	1		03/09/19 03:48	108-20-3	
Ethanol	ND	ug/L	200	144	1		03/09/19 03:48	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.8	1		03/09/19 03:48	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		03/09/19 03:48	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		03/09/19 03:48	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.1	1		03/09/19 03:48	91-20-3	
Toluene	ND	ug/L	5.0	2.0	1		03/09/19 03:48	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		03/09/19 03:48	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	4.1	1		03/09/19 03:48	179601-23-1	
o-Xylene	ND	ug/L	5.0	2.0	1		03/09/19 03:48	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	99	%	70-130		1		03/09/19 03:48	460-00-4	
1,2-Dichloroethane-d4 (S)	97	%	70-130		1		03/09/19 03:48	17060-07-0	
Toluene-d8 (S)	100	%	70-130		1		03/09/19 03:48	2037-26-5	

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### ANALYTICAL RESULTS

Project: Steady Simmons 18855/58463

Pace Project No.: 92420649

Sample: MW-12 Lab ID: 92420649012 Collected: 03/07/19 11:07 Received: 03/08/19 10:21 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8011 GCS EDB and DBCP</b>									
Analytical Method: EPA 8011 Preparation Method: EPA 8011									
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	0.019	1	03/12/19 13:27	03/13/19 04:07	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	97	%	60-140		1	03/12/19 13:27	03/13/19 04:07	301-79-56	
<b>8260 MSV</b>									
Analytical Method: EPA 8260B									
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		03/09/19 09:59	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		03/09/19 09:59	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		03/09/19 09:59	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		03/09/19 09:59	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	91.0	1		03/09/19 09:59	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		03/09/19 09:59	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		03/09/19 09:59	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	3.5	1		03/09/19 09:59	108-20-3	
Ethanol	ND	ug/L	200	144	1		03/09/19 09:59	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.8	1		03/09/19 09:59	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		03/09/19 09:59	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		03/09/19 09:59	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.1	1		03/09/19 09:59	91-20-3	
Toluene	ND	ug/L	5.0	2.0	1		03/09/19 09:59	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		03/09/19 09:59	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	4.1	1		03/09/19 09:59	179601-23-1	
o-Xylene	ND	ug/L	5.0	2.0	1		03/09/19 09:59	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	104	%	70-130		1		03/09/19 09:59	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%	70-130		1		03/09/19 09:59	17060-07-0	
Toluene-d8 (S)	103	%	70-130		1		03/09/19 09:59	2037-26-5	

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### ANALYTICAL RESULTS

Project: Steady Simmons 18855/58463  
Pace Project No.: 92420649

Sample: MW-13 Lab ID: 92420649013 Collected: 03/07/19 10:51 Received: 03/08/19 10:21 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8011 GCS EDB and DBCP</b>									
Analytical Method: EPA 8011 Preparation Method: EPA 8011									
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	0.019	1	03/12/19 13:27	03/13/19 04:26	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	102	%	60-140		1	03/12/19 13:27	03/13/19 04:26	301-79-56	
<b>8260 MSV</b>									
Analytical Method: EPA 8260B									
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		03/09/19 10:17	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		03/09/19 10:17	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		03/09/19 10:17	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		03/09/19 10:17	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	91.0	1		03/09/19 10:17	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		03/09/19 10:17	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		03/09/19 10:17	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	3.5	1		03/09/19 10:17	108-20-3	
Ethanol	ND	ug/L	200	144	1		03/09/19 10:17	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.8	1		03/09/19 10:17	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		03/09/19 10:17	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		03/09/19 10:17	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.1	1		03/09/19 10:17	91-20-3	
Toluene	ND	ug/L	5.0	2.0	1		03/09/19 10:17	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		03/09/19 10:17	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	4.1	1		03/09/19 10:17	179601-23-1	
o-Xylene	ND	ug/L	5.0	2.0	1		03/09/19 10:17	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	104	%	70-130		1		03/09/19 10:17	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%	70-130		1		03/09/19 10:17	17060-07-0	
Toluene-d8 (S)	107	%	70-130		1		03/09/19 10:17	2037-26-5	

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### ANALYTICAL RESULTS

Project: Steady Simmons 18855/58463

Pace Project No.: 92420649

Sample: MW-14 Lab ID: 92420649014 Collected: 03/07/19 12:35 Received: 03/08/19 10:21 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8011 GCS EDB and DBCP</b>									
Analytical Method: EPA 8011 Preparation Method: EPA 8011									
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	0.019	1	03/12/19 13:27	03/13/19 04:45	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	101	%	60-140		1	03/12/19 13:27	03/13/19 04:45	301-79-56	
<b>8260 MSV</b>									
Analytical Method: EPA 8260B									
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		03/09/19 10:35	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		03/09/19 10:35	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		03/09/19 10:35	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		03/09/19 10:35	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	91.0	1		03/09/19 10:35	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		03/09/19 10:35	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		03/09/19 10:35	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	3.5	1		03/09/19 10:35	108-20-3	
Ethanol	ND	ug/L	200	144	1		03/09/19 10:35	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.8	1		03/09/19 10:35	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		03/09/19 10:35	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		03/09/19 10:35	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.1	1		03/09/19 10:35	91-20-3	
Toluene	ND	ug/L	5.0	2.0	1		03/09/19 10:35	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		03/09/19 10:35	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	4.1	1		03/09/19 10:35	179601-23-1	
o-Xylene	ND	ug/L	5.0	2.0	1		03/09/19 10:35	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	105	%	70-130		1		03/09/19 10:35	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	70-130		1		03/09/19 10:35	17060-07-0	
Toluene-d8 (S)	108	%	70-130		1		03/09/19 10:35	2037-26-5	

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### ANALYTICAL RESULTS

Project: Steady Simmons 18855/58463  
Pace Project No.: 92420649

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>Sample: MW-15</b>									
Lab ID: 92420649015 Collected: 03/07/19 12:59 Received: 03/08/19 10:21 Matrix: Water									
Analytical Method: EPA 8011 Preparation Method: EPA 8011									
<b>8011 GCS EDB and DBCP</b>									
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	0.019	1	03/12/19 13:27	03/13/19 05:05	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	100	%	60-140		1	03/12/19 13:27	03/13/19 05:05	301-79-56	
<b>8260 MSV</b>									
Analytical Method: EPA 8260B									
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		03/09/19 03:31	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		03/09/19 03:31	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		03/09/19 03:31	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		03/09/19 03:31	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	91.0	1		03/09/19 03:31	75-85-0	
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		03/09/19 03:31	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		03/09/19 03:31	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	3.5	1		03/09/19 03:31	108-20-3	
Ethanol	ND	ug/L	200	144	1		03/09/19 03:31	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.8	1		03/09/19 03:31	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		03/09/19 03:31	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		03/09/19 03:31	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.1	1		03/09/19 03:31	91-20-3	
Toluene	ND	ug/L	5.0	2.0	1		03/09/19 03:31	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		03/09/19 03:31	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	4.1	1		03/09/19 03:31	179601-23-1	
o-Xylene	ND	ug/L	5.0	2.0	1		03/09/19 03:31	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	101	%	70-130		1		03/09/19 03:31	460-00-4	
1,2-Dichloroethane-d4 (S)	98	%	70-130		1		03/09/19 03:31	17060-07-0	
Toluene-d8 (S)	98	%	70-130		1		03/09/19 03:31	2037-26-5	

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### ANALYTICAL RESULTS

Project: Steady Simmons 18855/58463

Pace Project No.: 92420649

Sample: MW-16 Lab ID: 92420649016 Collected: 03/07/19 11:55 Received: 03/08/19 10:21 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>8011 GCS EDB and DBCP</b>									
Analytical Method: EPA 8011 Preparation Method: EPA 8011									
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	0.019	1	03/12/19 13:27	03/13/19 05:24	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	97	%	60-140		1	03/12/19 13:27	03/13/19 05:24	301-79-56	
<b>8260 MSV</b>									
Analytical Method: EPA 8260B									
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		03/09/19 10:53	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		03/09/19 10:53	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		03/09/19 10:53	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		03/09/19 10:53	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	91.0	1		03/09/19 10:53	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		03/09/19 10:53	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		03/09/19 10:53	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	3.5	1		03/09/19 10:53	108-20-3	
Ethanol	ND	ug/L	200	144	1		03/09/19 10:53	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.8	1		03/09/19 10:53	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		03/09/19 10:53	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		03/09/19 10:53	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.1	1		03/09/19 10:53	91-20-3	
Toluene	ND	ug/L	5.0	2.0	1		03/09/19 10:53	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		03/09/19 10:53	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	4.1	1		03/09/19 10:53	179601-23-1	
o-Xylene	ND	ug/L	5.0	2.0	1		03/09/19 10:53	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	101	%	70-130		1		03/09/19 10:53	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%	70-130		1		03/09/19 10:53	17060-07-0	
Toluene-d8 (S)	104	%	70-130		1		03/09/19 10:53	2037-26-5	

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### ANALYTICAL RESULTS

Project: Steady Simmons 18855/58463  
Pace Project No.: 92420649

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Sample: MW-17 Lab ID: 92420649017 Collected: 03/07/19 10:18 Received: 03/08/19 10:21 Matrix: Water									
Analytical Method: EPA 8011 Preparation Method: EPA 8011									
8011 GCS EDB and DBCP									
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	0.019	1	03/12/19 13:27	03/13/19 05:44	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	101	%	60-140		1	03/12/19 13:27	03/13/19 05:44	301-79-56	
Analytical Method: EPA 8260B									
8260 MSV									
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		03/09/19 11:11	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		03/09/19 11:11	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		03/09/19 11:11	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		03/09/19 11:11	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	91.0	1		03/09/19 11:11	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		03/09/19 11:11	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		03/09/19 11:11	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	3.5	1		03/09/19 11:11	108-20-3	
Ethanol	ND	ug/L	200	144	1		03/09/19 11:11	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.8	1		03/09/19 11:11	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		03/09/19 11:11	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		03/09/19 11:11	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.1	1		03/09/19 11:11	91-20-3	
Toluene	ND	ug/L	5.0	2.0	1		03/09/19 11:11	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		03/09/19 11:11	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	4.1	1		03/09/19 11:11	179601-23-1	
o-Xylene	ND	ug/L	5.0	2.0	1		03/09/19 11:11	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	103	%	70-130		1		03/09/19 11:11	460-00-4	
1,2-Dichloroethane-d4 (S)	98	%	70-130		1		03/09/19 11:11	17060-07-0	
Toluene-d8 (S)	106	%	70-130		1		03/09/19 11:11	2037-26-5	

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### ANALYTICAL RESULTS

Project: Steady Simmons 18855/58463

Pace Project No.: 92420649

Sample: DW-1 Lab ID: 92420649018 Collected: 03/07/19 10:51 Received: 03/08/19 10:21 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>8011 GCS EDB and DBCP</b>									
Analytical Method: EPA 8011 Preparation Method: EPA 8011									
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	0.019	1	03/12/19 13:27	03/13/19 06:03	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	102	%	60-140		1	03/12/19 13:27	03/13/19 06:03	301-79-56	
<b>8260 MSV</b>									
Analytical Method: EPA 8260B									
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		03/09/19 11:29	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		03/09/19 11:29	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		03/09/19 11:29	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		03/09/19 11:29	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	91.0	1		03/09/19 11:29	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		03/09/19 11:29	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		03/09/19 11:29	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	3.5	1		03/09/19 11:29	108-20-3	
Ethanol	ND	ug/L	200	144	1		03/09/19 11:29	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.8	1		03/09/19 11:29	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		03/09/19 11:29	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		03/09/19 11:29	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.1	1		03/09/19 11:29	91-20-3	
Toluene	ND	ug/L	5.0	2.0	1		03/09/19 11:29	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		03/09/19 11:29	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	4.1	1		03/09/19 11:29	179601-23-1	
o-Xylene	ND	ug/L	5.0	2.0	1		03/09/19 11:29	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	102	%	70-130		1		03/09/19 11:29	460-00-4	
1,2-Dichloroethane-d4 (S)	99	%	70-130		1		03/09/19 11:29	17060-07-0	
Toluene-d8 (S)	104	%	70-130		1		03/09/19 11:29	2037-26-5	

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**ANALYTICAL RESULTS**

Project: Steady Simmons 18855/58463  
Pace Project No.: 92420649

Sample: DW-2 Lab ID: 92420649019 Collected: 03/07/19 10:14 Received: 03/08/19 10:21 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8011 GCS EDB and DBCP</b>									
Analytical Method: EPA 8011 Preparation Method: EPA 8011									
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	0.019	1	03/12/19 13:27	03/13/19 06:22	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	101	%	60-140		1	03/12/19 13:27	03/13/19 06:22	301-79-56	
<b>8260 MSV</b>									
Analytical Method: EPA 8260B									
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		03/09/19 11:46	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		03/09/19 11:46	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		03/09/19 11:46	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		03/09/19 11:46	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	91.0	1		03/09/19 11:46	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		03/09/19 11:46	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		03/09/19 11:46	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	3.5	1		03/09/19 11:46	108-20-3	
Ethanol	ND	ug/L	200	144	1		03/09/19 11:46	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.8	1		03/09/19 11:46	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		03/09/19 11:46	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		03/09/19 11:46	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.1	1		03/09/19 11:46	91-20-3	
Toluene	ND	ug/L	5.0	2.0	1		03/09/19 11:46	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		03/09/19 11:46	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	4.1	1		03/09/19 11:46	179601-23-1	
o-Xylene	ND	ug/L	5.0	2.0	1		03/09/19 11:46	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	105	%	70-130		1		03/09/19 11:46	460-00-4	
1,2-Dichloroethane-d4 (S)	99	%	70-130		1		03/09/19 11:46	17060-07-0	
Toluene-d8 (S)	103	%	70-130		1		03/09/19 11:46	2037-26-5	

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### ANALYTICAL RESULTS

Project: Steady Simmons 18855/58463  
Pace Project No.: 92420649

Sample: DW-3 Lab ID: 92420649020 Collected: 03/07/19 12:03 Received: 03/08/19 10:21 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8011 GCS EDB and DBCP</b>									
Analytical Method: EPA 8011 Preparation Method: EPA 8011									
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	0.019	1	03/12/19 13:27	03/13/19 06:42	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	100	%	60-140		1	03/12/19 13:27	03/13/19 06:42	301-79-56	
<b>8260 MSV</b>									
Analytical Method: EPA 8260B									
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		03/09/19 12:04	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		03/09/19 12:04	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		03/09/19 12:04	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		03/09/19 12:04	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	91.0	1		03/09/19 12:04	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		03/09/19 12:04	762-75-4	P5
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		03/09/19 12:04	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	3.5	1		03/09/19 12:04	108-20-3	
Ethanol	ND	ug/L	200	144	1		03/09/19 12:04	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.8	1		03/09/19 12:04	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		03/09/19 12:04	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		03/09/19 12:04	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.1	1		03/09/19 12:04	91-20-3	
Toluene	ND	ug/L	5.0	2.0	1		03/09/19 12:04	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		03/09/19 12:04	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	4.1	1		03/09/19 12:04	179601-23-1	
o-Xylene	ND	ug/L	5.0	2.0	1		03/09/19 12:04	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	107	%	70-130		1		03/09/19 12:04	460-00-4	
1,2-Dichloroethane-d4 (S)	97	%	70-130		1		03/09/19 12:04	17060-07-0	
Toluene-d8 (S)	102	%	70-130		1		03/09/19 12:04	2037-26-5	

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### ANALYTICAL RESULTS

Project: Steady Simmons 18855/58463  
Pace Project No.: 92420649

Sample: DW-4 Lab ID: 92420649021 Collected: 03/07/19 11:22 Received: 03/08/19 10:21 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8011 GCS EDB and DBCP</b>									
Analytical Method: EPA 8011 Preparation Method: EPA 8011									
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	0.019	1	03/12/19 13:27	03/13/19 07:01	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	98	%	60-140		1	03/12/19 13:27	03/13/19 07:01	301-79-56	
<b>8260 MSV</b>									
Analytical Method: EPA 8260B									
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		03/09/19 12:22	75-85-4	M1
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		03/09/19 12:22	994-05-8	M1
Benzene	ND	ug/L	5.0	1.7	1		03/09/19 12:22	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		03/09/19 12:22	624-95-3	M1
tert-Butyl Alcohol	ND	ug/L	100	91.0	1		03/09/19 12:22	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		03/09/19 12:22	762-75-4	L1,P5
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		03/09/19 12:22	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	3.5	1		03/09/19 12:22	108-20-3	M1
Ethanol	ND	ug/L	200	144	1		03/09/19 12:22	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.8	1		03/09/19 12:22	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		03/09/19 12:22	637-92-3	M1
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		03/09/19 12:22	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.1	1		03/09/19 12:22	91-20-3	
Toluene	ND	ug/L	5.0	2.0	1		03/09/19 12:22	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		03/09/19 12:22	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	4.1	1		03/09/19 12:22	179601-23-1	
o-Xylene	ND	ug/L	5.0	2.0	1		03/09/19 12:22	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	101	%	70-130		1		03/09/19 12:22	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%	70-130		1		03/09/19 12:22	17060-07-0	
Toluene-d8 (S)	104	%	70-130		1		03/09/19 12:22	2037-26-5	

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### ANALYTICAL RESULTS

Project: Steady Simmons 18855/58463  
Pace Project No.: 92420649

Sample: DW-5 Lab ID: 92420649022 Collected: 03/07/19 13:20 Received: 03/08/19 10:21 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8011 GCS EDB and DBCP</b>									
Analytical Method: EPA 8011 Preparation Method: EPA 8011									
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	0.019	1	03/12/19 13:27	03/12/19 19:00	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	99	%	60-140		1	03/12/19 13:27	03/12/19 19:00	301-79-56	
<b>8260 MSV</b>									
Analytical Method: EPA 8260B									
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		03/09/19 12:40	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		03/09/19 12:40	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		03/09/19 12:40	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		03/09/19 12:40	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	91.0	1		03/09/19 12:40	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		03/09/19 12:40	762-75-4	L1
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		03/09/19 12:40	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	3.5	1		03/09/19 12:40	108-20-3	
Ethanol	ND	ug/L	200	144	1		03/09/19 12:40	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.8	1		03/09/19 12:40	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		03/09/19 12:40	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		03/09/19 12:40	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.1	1		03/09/19 12:40	91-20-3	
Toluene	ND	ug/L	5.0	2.0	1		03/09/19 12:40	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		03/09/19 12:40	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	4.1	1		03/09/19 12:40	179601-23-1	
o-Xylene	ND	ug/L	5.0	2.0	1		03/09/19 12:40	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	102	%	70-130		1		03/09/19 12:40	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%	70-130		1		03/09/19 12:40	17060-07-0	
Toluene-d8 (S)	103	%	70-130		1		03/09/19 12:40	2037-26-5	

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### ANALYTICAL RESULTS

Project: Steady Simmons 18855/58463  
Pace Project No.: 92420649

Sample:	Lab ID:	Collected:	Received:	Matrix:										
DW-6	92420649023	03/07/19 12:31	03/08/19 10:21	Water	Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8011 GCS EDB and DBCP</b>					Analytical Method: EPA 8011 Preparation Method: EPA 8011									
1,2-Dibromoethane (EDB)					ND	ug/L	0.020	0.020	1		03/12/19 13:27	03/12/19 19:38	106-93-4	
<b>Surrogates</b>														
1-Chloro-2-bromopropane (S)					96	%	60-140		1		03/12/19 13:27	03/12/19 19:38	301-79-56	
<b>8260 MSV</b>					Analytical Method: EPA 8260B									
tert-Amyl Alcohol					ND	ug/L	100	65.6	1			03/09/19 12:58	75-85-4	
tert-Amylmethyl ether					ND	ug/L	10.0	3.0	1			03/09/19 12:58	994-05-8	
Benzene					ND	ug/L	5.0	1.7	1			03/09/19 12:58	71-43-2	
3,3-Dimethyl-1-Butanol					ND	ug/L	100	53.9	1			03/09/19 12:58	624-95-3	
tert-Butyl Alcohol					ND	ug/L	100	91.0	1			03/09/19 12:58	75-65-0	
tert-Butyl Formate					ND	ug/L	50.0	24.1	1			03/09/19 12:58	762-75-4	L1
1,2-Dichloroethane					ND	ug/L	5.0	2.1	1			03/09/19 12:58	107-06-2	
Diisopropyl ether					ND	ug/L	5.0	3.5	1			03/09/19 12:58	108-20-3	
Ethanol					ND	ug/L	200	144	1			03/09/19 12:58	64-17-5	
Ethylbenzene					ND	ug/L	5.0	1.8	1			03/09/19 12:58	100-41-4	
Ethyl-tert-butyl ether					ND	ug/L	10.0	8.5	1			03/09/19 12:58	637-92-3	
Methyl-tert-butyl ether					ND	ug/L	5.0	3.1	1			03/09/19 12:58	1634-04-4	
Naphthalene					ND	ug/L	5.0	2.1	1			03/09/19 12:58	91-20-3	
Toluene					ND	ug/L	5.0	2.0	1			03/09/19 12:58	108-88-3	
Xylene (Total)					ND	ug/L	5.0	5.0	1			03/09/19 12:58	1330-20-7	
m&p-Xylene					ND	ug/L	10.0	4.1	1			03/09/19 12:58	179601-23-1	
o-Xylene					ND	ug/L	5.0	2.0	1			03/09/19 12:58	95-47-6	
<b>Surrogates</b>														
4-Bromofluorobenzene (S)					101	%	70-130		1			03/09/19 12:58	460-00-4	
1,2-Dichloroethane-d4 (S)					98	%	70-130		1			03/09/19 12:58	17060-07-0	
Toluene-d8 (S)					104	%	70-130		1			03/09/19 12:58	2037-26-5	

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### ANALYTICAL RESULTS

Project: Steady Simmons 18855/58463

Pace Project No.: 92420649

Sample: DW-7 Lab ID: 92420649024 Collected: 03/07/19 13:04 Received: 03/08/19 10:21 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>8011 GCS EDB and DBCP</b>									
Analytical Method: EPA 8011 Preparation Method: EPA 8011									
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	03/12/19 13:27	03/12/19 20:34	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	98	%	60-140		1	03/12/19 13:27	03/12/19 20:34	301-79-56	
<b>8260 MSV</b>									
Analytical Method: EPA 8260B									
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		03/09/19 13:16	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		03/09/19 13:16	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		03/09/19 13:16	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		03/09/19 13:16	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	91.0	1		03/09/19 13:16	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		03/09/19 13:16	762-75-4	L1
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		03/09/19 13:16	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	3.5	1		03/09/19 13:16	108-20-3	
Ethanol	ND	ug/L	200	144	1		03/09/19 13:16	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.8	1		03/09/19 13:16	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		03/09/19 13:16	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		03/09/19 13:16	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.1	1		03/09/19 13:16	91-20-3	
Toluene	ND	ug/L	5.0	2.0	1		03/09/19 13:16	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		03/09/19 13:16	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	4.1	1		03/09/19 13:16	179601-23-1	
o-Xylene	ND	ug/L	5.0	2.0	1		03/09/19 13:16	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	104	%	70-130		1		03/09/19 13:16	460-00-4	
1,2-Dichloroethane-d4 (S)	98	%	70-130		1		03/09/19 13:16	17060-07-0	
Toluene-d8 (S)	104	%	70-130		1		03/09/19 13:16	2037-26-5	

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### ANALYTICAL RESULTS

Project: Steady Simmons 18855/58463  
Pace Project No.: 92420649

Sample:	Lab ID:	Collected:	Received:	Matrix:					
DW-8	92420649025	03/07/19 10:12	03/08/19 10:21	Water					
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8011 GCS EDB and DBCP</b>									
Analytical Method: EPA 8011					Preparation Method: EPA 8011				
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	03/12/19 13:27	03/12/19 20:53	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	98	%	60-140		1	03/12/19 13:27	03/12/19 20:53	301-79-56	
<b>8260 MSV</b>									
Analytical Method: EPA 8260B									
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		03/09/19 13:34	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		03/09/19 13:34	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		03/09/19 13:34	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		03/09/19 13:34	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	91.0	1		03/09/19 13:34	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		03/09/19 13:34	762-75-4	L1
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		03/09/19 13:34	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	3.5	1		03/09/19 13:34	108-20-3	
Ethanol	ND	ug/L	200	144	1		03/09/19 13:34	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.8	1		03/09/19 13:34	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		03/09/19 13:34	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		03/09/19 13:34	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.1	1		03/09/19 13:34	91-20-3	
Toluene	ND	ug/L	5.0	2.0	1		03/09/19 13:34	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		03/09/19 13:34	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	4.1	1		03/09/19 13:34	179601-23-1	
o-Xylene	ND	ug/L	5.0	2.0	1		03/09/19 13:34	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	102	%	70-130		1		03/09/19 13:34	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%	70-130		1		03/09/19 13:34	17060-07-0	
Toluene-d8 (S)	104	%	70-130		1		03/09/19 13:34	2037-26-5	

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**ANALYTICAL RESULTS**

Project: Steady Simmons 18855/58463  
Pace Project No.: 92420649

Sample: SW-1 Lab ID: 92420649026 Collected: 03/07/19 13:27 Received: 03/08/19 10:21 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8011 GCS EDB and DBCP</b>		Analytical Method: EPA 8011 Preparation Method: EPA 8011							
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	03/12/19 13:27	03/12/19 21:12	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	100	%	60-140		1	03/12/19 13:27	03/12/19 21:12	301-79-56	
<b>8260 MSV Low Level SC</b>		Analytical Method: EPA 8260B							
tert-Amyl Alcohol	ND	ug/L	100	53.9	1		03/09/19 14:40	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.5	1		03/09/19 14:40	994-05-8	
Benzene	ND	ug/L	1.0	0.15	1		03/09/19 14:40	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	62.0	1		03/09/19 14:40	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	27.3	1		03/09/19 14:40	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.7	1		03/09/19 14:40	762-75-4	
1,2-Dichloroethane	ND	ug/L	1.0	0.34	1		03/09/19 14:40	107-06-2	
Diisopropyl ether	ND	ug/L	1.0	0.22	1		03/09/19 14:40	108-20-3	
Ethanol	ND	ug/L	200	98.8	1		03/09/19 14:40	64-17-5	
Ethylbenzene	ND	ug/L	1.0	0.26	1		03/09/19 14:40	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.7	1		03/09/19 14:40	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.28	1		03/09/19 14:40	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.35	1		03/09/19 14:40	91-20-3	
Toluene	ND	ug/L	1.0	0.24	1		03/09/19 14:40	108-88-3	
Xylene (Total)	ND	ug/L	1.0	0.63	1		03/09/19 14:40	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.41	1		03/09/19 14:40	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.22	1		03/09/19 14:40	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	101	%	70-130		1		03/09/19 14:40	460-00-4	
1,2-Dichloroethane-d4 (S)	95	%	70-130		1		03/09/19 14:40	17060-07-0	
Toluene-d8 (S)	106	%	70-130		1		03/09/19 14:40	2037-26-5	

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### ANALYTICAL RESULTS

Project: Steady Simmons 18855/58463  
Pace Project No.: 92420649

Sample: SW-2 Lab ID: 92420649027 Collected: 03/07/19 13:29 Received: 03/08/19 10:21 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8011 GCS EDB and DBCP</b>									
Analytical Method: EPA 8011 Preparation Method: EPA 8011									
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	03/12/19 13:27	03/12/19 21:30	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	98	%	60-140		1	03/12/19 13:27	03/12/19 21:30	301-79-56	
<b>8260 MSV Low Level SC</b>									
Analytical Method: EPA 8260B									
tert-Amyl Alcohol	ND	ug/L	100	53.9	1		03/09/19 15:36	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.5	1		03/09/19 15:36	994-05-8	
Benzene	ND	ug/L	1.0	0.15	1		03/09/19 15:36	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	62.0	1		03/09/19 15:36	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	27.3	1		03/09/19 15:36	75-85-0	
tert-Butyl Formate	ND	ug/L	50.0	24.7	1		03/09/19 15:36	762-75-4	
1,2-Dichloroethane	ND	ug/L	1.0	0.34	1		03/09/19 15:36	107-06-2	
Diisopropyl ether	ND	ug/L	1.0	0.22	1		03/09/19 15:36	108-20-3	
Ethanol	ND	ug/L	200	98.8	1		03/09/19 15:36	64-17-5	
Ethylbenzene	ND	ug/L	1.0	0.26	1		03/09/19 15:36	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.7	1		03/09/19 15:36	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.28	1		03/09/19 15:36	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.35	1		03/09/19 15:36	91-20-3	
Toluene	ND	ug/L	1.0	0.24	1		03/09/19 15:36	108-88-3	
Xylene (Total)	ND	ug/L	1.0	0.63	1		03/09/19 15:36	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.41	1		03/09/19 15:36	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.22	1		03/09/19 15:36	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	99	%	70-130		1		03/09/19 15:36	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%	70-130		1		03/09/19 15:36	17060-07-0	
Toluene-d8 (S)	101	%	70-130		1		03/09/19 15:36	2037-26-5	

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### ANALYTICAL RESULTS

Project: Steady Simmons 18855/58463  
Pace Project No.: 92420649

Sample: DUP-1      Lab ID: 92420649028      Collected: 03/07/19 12:19      Received: 03/08/19 10:21      Matrix: Water									
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8011 GCS EDB and DBCP</b> Analytical Method: EPA 8011      Preparation Method: EPA 8011									
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	03/12/19 13:27	03/12/19 21:49	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	94	%	60-140		1	03/12/19 13:27	03/12/19 21:49	301-79-56	
<b>8260 MSV</b> Analytical Method: EPA 8260B									
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		03/09/19 13:52	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		03/09/19 13:52	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		03/09/19 13:52	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		03/09/19 13:52	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	91.0	1		03/09/19 13:52	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		03/09/19 13:52	762-75-4	L1
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		03/09/19 13:52	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	3.5	1		03/09/19 13:52	108-20-3	
Ethanol	ND	ug/L	200	144	1		03/09/19 13:52	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.8	1		03/09/19 13:52	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		03/09/19 13:52	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		03/09/19 13:52	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.1	1		03/09/19 13:52	91-20-3	
Toluene	ND	ug/L	5.0	2.0	1		03/09/19 13:52	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		03/09/19 13:52	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	4.1	1		03/09/19 13:52	179601-23-1	
o-Xylene	ND	ug/L	5.0	2.0	1		03/09/19 13:52	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	103	%	70-130		1		03/09/19 13:52	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%	70-130		1		03/09/19 13:52	17060-07-0	
Toluene-d8 (S)	103	%	70-130		1		03/09/19 13:52	2037-26-5	

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### ANALYTICAL RESULTS

Project: Steady Simmons 18855/58463  
Pace Project No.: 92420649

Sample: DUP-2 Lab ID: 92420649029 Collected: 03/07/19 12:35 Received: 03/08/19 10:21 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8011 GCS EDB and DBCP</b>									
Analytical Method: EPA 8011 Preparation Method: EPA 8011									
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	03/12/19 13:27	03/12/19 22:07	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	98	%	60-140		1	03/12/19 13:27	03/12/19 22:07	301-79-56	
<b>8260 MSV</b>									
Analytical Method: EPA 8260B									
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		03/09/19 14:10	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		03/09/19 14:10	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		03/09/19 14:10	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		03/09/19 14:10	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	91.0	1		03/09/19 14:10	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		03/09/19 14:10	762-75-4	L1
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		03/09/19 14:10	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	3.5	1		03/09/19 14:10	108-20-3	
Ethanol	ND	ug/L	200	144	1		03/09/19 14:10	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.8	1		03/09/19 14:10	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		03/09/19 14:10	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		03/09/19 14:10	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.1	1		03/09/19 14:10	91-20-3	
Toluene	ND	ug/L	5.0	2.0	1		03/09/19 14:10	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		03/09/19 14:10	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	4.1	1		03/09/19 14:10	179601-23-1	
o-Xylene	ND	ug/L	5.0	2.0	1		03/09/19 14:10	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	105	%	70-130		1		03/09/19 14:10	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%	70-130		1		03/09/19 14:10	17060-07-0	
Toluene-d8 (S)	102	%	70-130		1		03/09/19 14:10	2037-26-5	

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### ANALYTICAL RESULTS

Project: Steady Simmons 18855/58463  
Pace Project No.: 92420649

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>Sample: FB</b> <b>Lab ID: 92420649030</b> <b>Collected: 03/07/19 13:35</b> <b>Received: 03/08/19 10:21</b> <b>Matrix: Water</b>									
Analytical Method: EPA 8011    Preparation Method: EPA 8011									
<b>8011 GCS EDB and DBCP</b>									
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	0.019	1	03/12/19 13:27	03/12/19 22:26	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	98	%	60-140		1	03/12/19 13:27	03/12/19 22:26	301-79-56	
Analytical Method: EPA 8260B									
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		03/09/19 07:00	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		03/09/19 07:00	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		03/09/19 07:00	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		03/09/19 07:00	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	91.0	1		03/09/19 07:00	75-85-0	
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		03/09/19 07:00	782-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		03/09/19 07:00	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	3.5	1		03/09/19 07:00	108-20-3	
Ethanol	ND	ug/L	200	144	1		03/09/19 07:00	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.8	1		03/09/19 07:00	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		03/09/19 07:00	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		03/09/19 07:00	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.1	1		03/09/19 07:00	91-20-3	
Toluene	ND	ug/L	5.0	2.0	1		03/09/19 07:00	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		03/09/19 07:00	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	4.1	1		03/09/19 07:00	179601-23-1	
o-Xylene	ND	ug/L	5.0	2.0	1		03/09/19 07:00	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	104	%	70-130		1		03/09/19 07:00	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%	70-130		1		03/09/19 07:00	17060-07-0	
Toluene-d8 (S)	109	%	70-130		1		03/09/19 07:00	2037-26-5	

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**ANALYTICAL RESULTS**

Project: Steady Simmons 18855/58463  
Pace Project No.: 92420649

Sample: TB-1 Lab ID: 92420649031 Collected: 03/07/19 13:35 Received: 03/08/19 10:21 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>									
Analytical Method: EPA 8260B									
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		03/09/19 06:24	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		03/09/19 06:24	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		03/09/19 06:24	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		03/09/19 06:24	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	91.0	1		03/09/19 06:24	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		03/09/19 06:24	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		03/09/19 06:24	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	3.5	1		03/09/19 06:24	108-20-3	
Ethanol	ND	ug/L	200	144	1		03/09/19 06:24	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.8	1		03/09/19 06:24	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		03/09/19 06:24	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		03/09/19 06:24	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.1	1		03/09/19 06:24	91-20-3	
Toluene	ND	ug/L	5.0	2.0	1		03/09/19 06:24	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		03/09/19 06:24	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	4.1	1		03/09/19 06:24	179601-23-1	
o-Xylene	ND	ug/L	5.0	2.0	1		03/09/19 06:24	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	103	%	70-130		1		03/09/19 06:24	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%	70-130		1		03/09/19 06:24	17060-07-0	
Toluene-d8 (S)	105	%	70-130		1		03/09/19 06:24	2037-26-5	

**REPORT OF LABORATORY ANALYSIS**

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### ANALYTICAL RESULTS

Project: Steady Simmons 18855/58463  
Pace Project No.: 92420649

Sample: TB-2 Lab ID: 92420649032 Collected: 03/07/19 13:35 Received: 03/08/19 10:21 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>8260 MSV</b>									
Analytical Method: EPA 8260B									
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		03/09/19 06:42	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		03/09/19 06:42	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		03/09/19 06:42	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		03/09/19 06:42	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	91.0	1		03/09/19 06:42	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		03/09/19 06:42	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		03/09/19 06:42	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	3.5	1		03/09/19 06:42	108-20-3	
Ethanol	ND	ug/L	200	144	1		03/09/19 06:42	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.8	1		03/09/19 06:42	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		03/09/19 06:42	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		03/09/19 06:42	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.1	1		03/09/19 06:42	91-20-3	
Toluene	ND	ug/L	5.0	2.0	1		03/09/19 06:42	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		03/09/19 06:42	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	4.1	1		03/09/19 06:42	179601-23-1	
o-Xylene	ND	ug/L	5.0	2.0	1		03/09/19 06:42	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	101	%	70-130		1		03/09/19 06:42	460-00-4	
1,2-Dichloroethane-d4 (S)	99	%	70-130		1		03/09/19 06:42	17060-07-0	
Toluene-d8 (S)	104	%	70-130		1		03/09/19 06:42	2037-26-5	

### REPORT OF LABORATORY ANALYSIS

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**QUALITY CONTROL DATA**

Project: Steady Simmons 18855/58463  
Pace Project No.: 92420649

QC Batch: 462397 Analysis Method: EPA 8260B  
QC Batch Method: EPA 8260B Analysis Description: 8260 MSV Low Level SC  
Associated Lab Samples: 92420649026

METHOD BLANK: 2517063 Matrix: Water  
Associated Lab Samples: 92420649026

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	1.0	0.34	03/09/19 12:13	
3,3-Dimethyl-1-Butanol	ug/L	ND	100	62.0	03/09/19 12:13	
Benzene	ug/L	ND	1.0	0.15	03/09/19 12:13	
Diisopropyl ether	ug/L	ND	1.0	0.22	03/09/19 12:13	
Ethanol	ug/L	ND	200	98.8	03/09/19 12:13	
Ethyl-tert-butyl ether	ug/L	ND	10.0	3.7	03/09/19 12:13	
Ethylbenzene	ug/L	ND	1.0	0.26	03/09/19 12:13	
m&p-Xylene	ug/L	ND	2.0	0.41	03/09/19 12:13	
Methyl-tert-butyl ether	ug/L	ND	1.0	0.28	03/09/19 12:13	
Naphthalene	ug/L	ND	1.0	0.35	03/09/19 12:13	
o-Xylene	ug/L	ND	1.0	0.22	03/09/19 12:13	
tert-Amyl Alcohol	ug/L	ND	100	53.9	03/09/19 12:13	
tert-Amylmethyl ether	ug/L	ND	10.0	3.5	03/09/19 12:13	
tert-Butyl Alcohol	ug/L	ND	100	27.3	03/09/19 12:13	
tert-Butyl Formate	ug/L	ND	50.0	24.7	03/09/19 12:13	
Toluene	ug/L	ND	1.0	0.24	03/09/19 12:13	
Xylene (Total)	ug/L	ND	1.0	0.63	03/09/19 12:13	
1,2-Dichloroethane-d4 (S)	%	89	70-130		03/09/19 12:13	
4-Bromofluorobenzene (S)	%	101	70-130		03/09/19 12:13	
Toluene-d8 (S)	%	106	70-130		03/09/19 12:13	

LABORATORY CONTROL SAMPLE: 2517064

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	50	51.7	103	70-130	
3,3-Dimethyl-1-Butanol	ug/L	1000	1010	101	70-130	
Benzene	ug/L	50	53.5	107	70-130	
Diisopropyl ether	ug/L	50	57.4	115	70-130	
Ethanol	ug/L	2000	2190	109	70-130	
Ethyl-tert-butyl ether	ug/L	100	107	107	70-130	
Ethylbenzene	ug/L	50	51.5	103	70-130	
m&p-Xylene	ug/L	100	105	105	70-130	
Methyl-tert-butyl ether	ug/L	50	50.6	101	70-130	
Naphthalene	ug/L	50	52.2	104	70-130	
o-Xylene	ug/L	50	51.4	103	70-130	
tert-Amyl Alcohol	ug/L	1000	1080	108	70-130	
tert-Amylmethyl ether	ug/L	100	106	106	70-130	
tert-Butyl Alcohol	ug/L	500	514	103	70-130	
tert-Butyl Formate	ug/L	400	508	127	70-130	
Toluene	ug/L	50	50.3	101	70-130	

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### QUALITY CONTROL DATA

Project: Steady Simmons 18855/58463  
Pace Project No.: 92420649

LABORATORY CONTROL SAMPLE: 2517084

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Xylene (Total)	ug/L	150	157	104	70-130	
1,2-Dichloroethane-d4 (S)	%			101	70-130	
4-Bromofluorobenzene (S)	%			99	70-130	
Toluene-d8 (S)	%			96	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2517065 2517066

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92420643005 Result	Spike Conc.	Spike Conc.	MS Result						
1,2-Dichloroethane	ug/L	ND	20	20	18.8	19.2	94	96	70-130	2	30
3,3-Dimethyl-1-Butanol	ug/L	ND	400	400	496	486	124	122	70-130	2	30
Benzene	ug/L	ND	20	20	22.1	23.1	111	115	70-130	4	30
Diisopropyl ether	ug/L	ND	20	20	20.3	20.5	102	103	70-130	1	30
Ethanol	ug/L	ND	800	800	898	887	112	111	70-130	1	30
Ethyl-tert-butyl ether	ug/L	ND	40	40	40.6	40.9	101	102	70-130	1	30
Ethylbenzene	ug/L	ND	20	20	21.9	22.6	109	113	70-130	3	30
m&p-Xylene	ug/L	ND	40	40	43.4	45.4	108	113	70-130	5	30
Methyl-tert-butyl ether	ug/L	ND	20	20	21.2	21.4	106	107	70-130	1	30
Naphthalene	ug/L	ND	20	20	24.3	21.7	121	109	70-130	11	30
o-Xylene	ug/L	ND	20	20	22.5	22.8	113	114	70-130	1	30
tert-Amyl Alcohol	ug/L	ND	400	400	445	441	111	110	70-130	1	30
tert-Amylmethyl ether	ug/L	ND	40	40	43.2	44.7	108	112	70-130	3	30
tert-Butyl Alcohol	ug/L	ND	200	200	291	267	145	133	70-130	9	30 M1
tert-Butyl Formate	ug/L	ND	160	160	34.8J	50.7	22	32	70-130		30 M1
Toluene	ug/L	ND	20	20	21.0	22.4	105	112	70-130	7	30
Xylene (Total)	ug/L	ND	60	60	65.9	68.1	110	114	70-130	3	30
1,2-Dichloroethane-d4 (S)	%						93	94	70-130		
4-Bromofluorobenzene (S)	%						95	99	70-130		
Toluene-d8 (S)	%						101	102	70-130		

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### QUALITY CONTROL DATA

Project: Steady Simmons 18855/58463  
Pace Project No.: 92420649

QC Batch: 462400 Analysis Method: EPA 8260B  
QC Batch Method: EPA 8260B Analysis Description: 8260 MSV Low Level SC  
Associated Lab Samples: 92420649027

METHOD BLANK: 2517067 Matrix: Water  
Associated Lab Samples: 92420649027

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	1.0	0.34	03/09/19 11:02	
3,3-Dimethyl-1-Butanol	ug/L	ND	100	62.0	03/09/19 11:02	
Benzene	ug/L	ND	1.0	0.15	03/09/19 11:02	
Diisopropyl ether	ug/L	ND	1.0	0.22	03/09/19 11:02	
Ethanol	ug/L	ND	200	98.8	03/09/19 11:02	
Ethyl-tert-butyl ether	ug/L	ND	10.0	3.7	03/09/19 11:02	
Ethylbenzene	ug/L	ND	1.0	0.26	03/09/19 11:02	
m&p-Xylene	ug/L	ND	2.0	0.41	03/09/19 11:02	
Methyl-tert-butyl ether	ug/L	ND	1.0	0.28	03/09/19 11:02	
Naphthalene	ug/L	ND	1.0	0.35	03/09/19 11:02	
o-Xylene	ug/L	ND	1.0	0.22	03/09/19 11:02	
tert-Amyl Alcohol	ug/L	ND	100	53.9	03/09/19 11:02	
tert-Amylmethyl ether	ug/L	ND	10.0	3.5	03/09/19 11:02	
tert-Butyl Alcohol	ug/L	ND	100	27.3	03/09/19 11:02	
tert-Butyl Formate	ug/L	ND	50.0	24.7	03/09/19 11:02	
Toluene	ug/L	ND	1.0	0.24	03/09/19 11:02	
Xylene (Total)	ug/L	ND	1.0	0.63	03/09/19 11:02	
1,2-Dichloroethane-d4 (S)	%	97	70-130		03/09/19 11:02	
4-Bromofluorobenzene (S)	%	99	70-130		03/09/19 11:02	
Toluene-d8 (S)	%	101	70-130		03/09/19 11:02	

LABORATORY CONTROL SAMPLE: 2517068

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	50	40.7	81	70-130	
3,3-Dimethyl-1-Butanol	ug/L	1000	1020	102	70-130	
Benzene	ug/L	50	44.9	90	70-130	
Diisopropyl ether	ug/L	50	41.3	83	70-130	
Ethanol	ug/L	2000	1630	82	70-130	
Ethyl-tert-butyl ether	ug/L	100	82.3	82	70-130	
Ethylbenzene	ug/L	50	46.0	92	70-130	
m&p-Xylene	ug/L	100	90.5	90	70-130	
Methyl-tert-butyl ether	ug/L	50	45.4	91	70-130	
Naphthalene	ug/L	50	50.8	102	70-130	
o-Xylene	ug/L	50	46.8	94	70-130	
tert-Amyl Alcohol	ug/L	1000	955	96	70-130	
tert-Amylmethyl ether	ug/L	100	90.1	90	70-130	
tert-Butyl Alcohol	ug/L	500	469	94	70-130	
tert-Butyl Formate	ug/L	400	375	94	70-130	
Toluene	ug/L	50	43.5	87	70-130	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: Steady Simmons 18855/58463  
Pace Project No.: 92420649

LABORATORY CONTROL SAMPLE: 2517068

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Xylene (Total)	ug/L	150	137	91	70-130	
1,2-Dichloroethane-d4 (S)	%			101	70-130	
4-Bromofluorobenzene (S)	%			95	70-130	
Toluene-d8 (S)	%			96	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2517069 2517070

Parameter	Units	92420664008		MS		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		Result	Conc.	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec						
1,2-Dichloroethane	ug/L	ND	100	100	100	89.7	94.5	90	95	70-130	5	30			
3,3-Dimethyl-1-Butanol	ug/L	ND	2000	2000	2000	1930	2170	96	108	70-130	12	30			
Benzene	ug/L	102	100	100	100	212	207	110	105	70-130	2	30			
Diisopropyl ether	ug/L	ND	100	100	100	89.3	87.0	89	87	70-130	3	30			
Ethanol	ug/L	ND	4000	4000	4000	4080	3960	102	99	70-130	3	30			
Ethyl-tert-butyl ether	ug/L	ND	200	200	200	170	169	85	85	70-130	0	30			
Ethylbenzene	ug/L	633	100	100	100	750	747	116	113	70-130	0	30			
m&p-Xylene	ug/L	1420	200	200	200	1650	1600	116	90	70-130	3	30			
Methyl-tert-butyl ether	ug/L	1.5J	100	100	100	94.1	95.7	93	94	70-130	2	30			
Naphthalene	ug/L	178	100	100	100	307	316	129	137	70-130	3	30	M1		
o-Xylene	ug/L	77.6	100	100	100	178	184	100	106	70-130	3	30			
tert-Amyl Alcohol	ug/L	ND	2000	2000	2000	1850	1940	93	97	70-130	5	30			
tert-Amylmethyl ether	ug/L	ND	200	200	200	189	195	94	97	70-130	3	30			
tert-Butyl Alcohol	ug/L	ND	1000	1000	1000	1280	1300	128	130	70-130	2	30			
tert-Butyl Formate	ug/L	ND	800	800	800	ND	ND	8	7	70-130		30	P5		
Toluene	ug/L	627	100	100	100	722	773	94	146	70-130	7	30	M1		
Xylene (Total)	ug/L	1500	300	300	300	1830	1790	111	96	70-130	3	30			
1,2-Dichloroethane-d4 (S)	%							98	97	70-130					
4-Bromofluorobenzene (S)	%							101	92	70-130					
Toluene-d8 (S)	%							101	105	70-130					

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QUALITY CONTROL DATA

Project: Steady Simmons 18855/58463  
Pace Project No.: 92420649

QC Batch: 462369 Analysis Method: EPA 8260B  
QC Batch Method: EPA 8260B Analysis Description: 8260 MSV SC  
Associated Lab Samples: 92420649006, 92420649007, 92420649008, 92420649009, 92420649010, 92420649012, 92420649013,  
92420649014, 92420649016, 92420649017, 92420649018, 92420649019, 92420649020, 92420649030,  
92420649031, 92420649032

METHOD BLANK: 2516972 Matrix: Water  
Associated Lab Samples: 92420649006, 92420649007, 92420649008, 92420649009, 92420649010, 92420649012, 92420649013,  
92420649014, 92420649016, 92420649017, 92420649018, 92420649019, 92420649020, 92420649030,  
92420649031, 92420649032

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	5.0	2.1	03/09/19 05:48	
3,3-Dimethyl-1-Butanol	ug/L	ND	100	53.9	03/09/19 05:48	
Benzene	ug/L	ND	5.0	1.7	03/09/19 05:48	
Diisopropyl ether	ug/L	ND	5.0	3.5	03/09/19 05:48	
Ethanol	ug/L	ND	200	144	03/09/19 05:48	
Ethyl-tert-butyl ether	ug/L	ND	10.0	8.5	03/09/19 05:48	
Ethylbenzene	ug/L	ND	5.0	1.8	03/09/19 05:48	
m&p-Xylene	ug/L	ND	10.0	4.1	03/09/19 05:48	
Methyl-tert-butyl ether	ug/L	ND	5.0	3.1	03/09/19 05:48	
Naphthalene	ug/L	ND	5.0	2.1	03/09/19 05:48	
o-Xylene	ug/L	ND	5.0	2.0	03/09/19 05:48	
tert-Amyl Alcohol	ug/L	ND	100	65.6	03/09/19 05:48	
tert-Amylmethyl ether	ug/L	ND	10.0	3.0	03/09/19 05:48	
tert-Butyl Alcohol	ug/L	ND	100	91.0	03/09/19 05:48	
tert-Butyl Formate	ug/L	ND	50.0	24.1	03/09/19 05:48	
Toluene	ug/L	ND	5.0	2.0	03/09/19 05:48	
Xylene (Total)	ug/L	ND	5.0	5.0	03/09/19 05:48	
1,2-Dichloroethane-d4 (S)	%	99	70-130		03/09/19 05:48	
4-Bromofluorobenzene (S)	%	100	70-130		03/09/19 05:48	
Toluene-d8 (S)	%	105	70-130		03/09/19 05:48	

LABORATORY CONTROL SAMPLE: 2516973

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	50	49.7	99	70-130	
3,3-Dimethyl-1-Butanol	ug/L	1000	980	98	70-130	
Benzene	ug/L	50	53.8	108	70-130	
Diisopropyl ether	ug/L	50	58.3	117	70-130	
Ethanol	ug/L	2000	2090	105	70-130	
Ethyl-tert-butyl ether	ug/L	100	108	108	70-130	
Ethylbenzene	ug/L	50	53.7	107	70-130	
m&p-Xylene	ug/L	100	106	106	70-130	
Methyl-tert-butyl ether	ug/L	50	57.7	115	70-130	
Naphthalene	ug/L	50	54.3	109	70-130	
o-Xylene	ug/L	50	55.0	110	70-130	
tert-Amyl Alcohol	ug/L	1000	1100	110	70-130	

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QUALITY CONTROL DATA

Project: Steady Simmons 18855/58463  
Pace Project No.: 92420649

LABORATORY CONTROL SAMPLE: 2516973

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
tert-Amyl(methyl) ether	ug/L	100	110	110	70-130	
tert-Butyl Alcohol	ug/L	500	522	104	70-130	
tert-Butyl Formate	ug/L	400	490	123	70-130	
Toluene	ug/L	50	50.0	100	70-130	
Xylene (Total)	ug/L	150	161	107	70-130	
1,2-Dichloroethane-d4 (S)	%			97	70-130	
4-Bromofluorobenzene (S)	%			98	70-130	
Toluene-d8 (S)	%			96	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2516974 2516975

Parameter	Units	92420649020		MSD		MSD		MSD		% Rec Limits	Max		Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	RPD		RPD		
1,2-Dichloroethane	ug/L	ND	20	20	18.8	18.2	94	91	70-130	3	30		
3,3-Dimethyl-1-Butanol	ug/L	ND	400	400	340	335	85	84	70-130	2	30		
Benzene	ug/L	ND	20	20	19.5	18.9	97	95	70-130	3	30		
Diisopropyl ether	ug/L	ND	20	20	18.5	18.6	93	93	70-130	0	30		
Ethanol	ug/L	ND	800	800	743	726	93	91	70-130	2	30		
Ethyl-tert-butyl ether	ug/L	ND	40	40	35.7	35.4	89	88	70-130	1	30		
Ethylbenzene	ug/L	ND	20	20	19.1	19.2	95	96	70-130	1	30		
m&p-Xylene	ug/L	ND	40	40	38.9	38.5	97	96	70-130	1	30		
Methyl-tert-butyl ether	ug/L	ND	20	20	20.0	19.5	100	97	70-130	3	30		
Naphthalene	ug/L	ND	20	20	18.2	17.6	91	88	70-130	3	30		
o-Xylene	ug/L	ND	20	20	19.8	19.3	99	97	70-130	2	30		
tert-Amyl Alcohol	ug/L	ND	400	400	348	332	87	83	70-130	5	30		
tert-Amylmethyl ether	ug/L	ND	40	40	36.0	34.9	90	87	70-130	3	30		
tert-Butyl Alcohol	ug/L	ND	200	200	261	247	130	123	70-130	6	30		
tert-Butyl Formate	ug/L	ND	160	160	29.4J	ND	18	13	70-130		30 P5		
Toluene	ug/L	ND	20	20	18.5	18.5	92	92	70-130	0	30		
Xylene (Total)	ug/L	ND	60	60	58.6	57.8	98	96	70-130	1	30		
1,2-Dichloroethane-d4 (S)	%						97	99	70-130				
4-Bromofluorobenzene (S)	%						101	102	70-130				
Toluene-d8 (S)	%						99	101	70-130				

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REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: Steady Simmons 18855/58463  
Pace Project No.: 92420649

QC Batch: 462370 Analysis Method: EPA 8260B  
QC Batch Method: EPA 8260B Analysis Description: 8260 MSV SC  
Associated Lab Samples: 92420649003, 92420649021, 92420649022, 92420649023, 92420649024, 92420649025, 92420649028, 92420649029

METHOD BLANK: 2516976 Matrix: Water  
Associated Lab Samples: 92420649003, 92420649021, 92420649022, 92420649023, 92420649024, 92420649025, 92420649028, 92420649029

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	5.0	2.1	03/09/19 06:06	
3,3-Dimethyl-1-Butanol	ug/L	ND	100	53.9	03/09/19 06:06	
Benzene	ug/L	ND	5.0	1.7	03/09/19 06:06	
Diisopropyl ether	ug/L	ND	5.0	3.5	03/09/19 06:06	
Ethanol	ug/L	ND	200	144	03/09/19 06:06	
Ethyl-tert-butyl ether	ug/L	ND	10.0	8.5	03/09/19 06:06	
Ethylbenzene	ug/L	ND	5.0	1.8	03/09/19 06:06	
m&p-Xylene	ug/L	ND	10.0	4.1	03/09/19 06:06	
Methyl-tert-butyl ether	ug/L	ND	5.0	3.1	03/09/19 06:06	
Naphthalene	ug/L	ND	5.0	2.1	03/09/19 06:06	
o-Xylene	ug/L	ND	5.0	2.0	03/09/19 06:06	
tert-Amyl Alcohol	ug/L	ND	100	65.6	03/09/19 06:06	
tert-Amylmethyl ether	ug/L	ND	10.0	3.0	03/09/19 06:06	
tert-Butyl Alcohol	ug/L	ND	100	91.0	03/09/19 06:06	
tert-Butyl Formate	ug/L	ND	50.0	24.1	03/09/19 06:06	
Toluene	ug/L	ND	5.0	2.0	03/09/19 06:06	
Xylene (Total)	ug/L	ND	5.0	5.0	03/09/19 06:06	
1,2-Dichloroethane-d4 (S)	%	100	70-130		03/09/19 06:06	
4-Bromofluorobenzene (S)	%	103	70-130		03/09/19 06:06	
Toluene-d8 (S)	%	107	70-130		03/09/19 06:06	

LABORATORY CONTROL SAMPLE: 2516977

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	50	53.9	108	70-130	
3,3-Dimethyl-1-Butanol	ug/L	1000	1020	102	70-130	
Benzene	ug/L	50	57.2	114	70-130	
Diisopropyl ether	ug/L	50	62.1	124	70-130	
Ethanol	ug/L	2000	2190	109	70-130	
Ethyl-tert-butyl ether	ug/L	100	117	117	70-130	
Ethylbenzene	ug/L	50	55.7	111	70-130	
m&p-Xylene	ug/L	100	111	111	70-130	
Methyl-tert-butyl ether	ug/L	50	61.3	123	70-130	
Naphthalene	ug/L	50	58.2	116	70-130	
o-Xylene	ug/L	50	57.2	114	70-130	
tert-Amyl Alcohol	ug/L	1000	1180	118	70-130	
tert-Amylmethyl ether	ug/L	100	118	118	70-130	
tert-Butyl Alcohol	ug/L	500	556	111	70-130	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: Steady Simmons 18855/58463  
Pace Project No.: 92420649

LABORATORY CONTROL SAMPLE: 2516977

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
tert-Butyl Formate	ug/L	400	528	132	70-130	L1
Toluene	ug/L	50	55.0	110	70-130	
Xylene (Total)	ug/L	150	168	112	70-130	
1,2-Dichloroethane-d4 (S)	%			98	70-130	
4-Bromofluorobenzene (S)	%			97	70-130	
Toluene-d8 (S)	%			98	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2516978 2516979

Parameter	Units	92420649021		MS		MSD		% Rec	% Rec	% Rec	Limits	RPD	Max RPD	Qual
		Result	Conc.	Spike Conc.	Conc.	Result	Result							
1,2-Dichloroethane	ug/L	ND	20	20	14.5	16.6	72	83	70-130	14	30			
3,3-Dimethyl-1-Butanol	ug/L	ND	400	400	266	277	66	69	70-130	4	30	M1		
Benzene	ug/L	ND	20	20	15.3	16.7	77	83	70-130	9	30			
Diisopropyl ether	ug/L	ND	20	20	13.6	16.7	68	83	70-130	20	30	M1		
Ethanol	ug/L	ND	800	800	567	653	71	82	70-130	14	30			
Ethyl-tert-butyl ether	ug/L	ND	40	40	26.4	30.9	66	77	70-130	16	30	M1		
Ethylbenzene	ug/L	ND	20	20	15.1	17.0	75	85	70-130	12	30			
m&p-Xylene	ug/L	ND	40	40	30.3	34.0	76	85	70-130	12	30			
Methyl-tert-butyl ether	ug/L	ND	20	20	14.3	16.6	71	83	70-130	15	30			
Naphthalene	ug/L	ND	20	20	14.6	15.8	73	79	70-130	8	30			
o-Xylene	ug/L	ND	20	20	15.3	17.0	77	85	70-130	10	30			
tert-Amyl Alcohol	ug/L	ND	400	400	254	274	63	69	70-130	8	30	M1		
tert-Amylmethyl ether	ug/L	ND	40	40	26.8	28.8	67	72	70-130	7	30	M1		
tert-Butyl Alcohol	ug/L	ND	200	200	194	228	97	114	70-130	16	30			
tert-Butyl Formate	ug/L	ND	160	160	ND	ND	6	3	70-130		30	P5		
Toluene	ug/L	ND	20	20	14.5	15.6	72	78	70-130	8	30			
Xylene (Total)	ug/L	ND	60	60	45.7	51.1	76	85	70-130	11	30			
1,2-Dichloroethane-d4 (S)	%						99	110	70-130					
4-Bromofluorobenzene (S)	%						100	101	70-130					
Toluene-d8 (S)	%						100	96	70-130					

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QUALITY CONTROL DATA

Project: Steady Simmons 18855/58463  
Pace Project No.: 92420649

QC Batch: 462371 Analysis Method: EPA 8260B  
QC Batch Method: EPA 8260B Analysis Description: 8260 MSV SC  
Associated Lab Samples: 92420649001, 92420649004, 92420649005, 92420649011, 92420649015

METHOD BLANK: 2516982 Matrix: Water  
Associated Lab Samples: 92420649001, 92420649004, 92420649005, 92420649011, 92420649015

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	5.0	2.1	03/08/19 22:22	
3,3-Dimethyl-1-Butanol	ug/L	ND	100	53.9	03/08/19 22:22	
Benzene	ug/L	ND	5.0	1.7	03/08/19 22:22	
Diisopropyl ether	ug/L	ND	5.0	3.5	03/08/19 22:22	
Ethanol	ug/L	ND	200	144	03/08/19 22:22	
Ethyl-tert-butyl ether	ug/L	ND	10.0	8.5	03/08/19 22:22	
Ethylbenzene	ug/L	ND	5.0	1.8	03/08/19 22:22	
m&p-Xylene	ug/L	ND	10.0	4.1	03/08/19 22:22	
Methyl-tert-butyl ether	ug/L	ND	5.0	3.1	03/08/19 22:22	
Naphthalene	ug/L	ND	5.0	2.1	03/08/19 22:22	
o-Xylene	ug/L	ND	5.0	2.0	03/08/19 22:22	
tert-Amyl Alcohol	ug/L	ND	100	65.6	03/08/19 22:22	
tert-Amylmethyl ether	ug/L	ND	10.0	3.0	03/08/19 22:22	
tert-Butyl Alcohol	ug/L	ND	100	91.0	03/08/19 22:22	
tert-Butyl Formate	ug/L	ND	50.0	24.1	03/08/19 22:22	
Toluene	ug/L	ND	5.0	2.0	03/08/19 22:22	
Xylene (Total)	ug/L	ND	5.0	5.0	03/08/19 22:22	
1,2-Dichloroethane-d4 (S)	%	100	70-130		03/08/19 22:22	
4-Bromofluorobenzene (S)	%	101	70-130		03/08/19 22:22	
Toluene-d8 (S)	%	99	70-130		03/08/19 22:22	

LABORATORY CONTROL SAMPLE: 2516983

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	50	42.1	84	70-130	
3,3-Dimethyl-1-Butanol	ug/L	1000	1130	113	70-130	
Benzene	ug/L	50	47.3	95	70-130	
Diisopropyl ether	ug/L	50	43.7	87	70-130	
Ethanol	ug/L	2000	1680	84	70-130	
Ethyl-tert-butyl ether	ug/L	100	86.9	87	70-130	
Ethylbenzene	ug/L	50	48.7	97	70-130	
m&p-Xylene	ug/L	100	96.8	97	70-130	
Methyl-tert-butyl ether	ug/L	50	47.9	96	70-130	
Naphthalene	ug/L	50	52.9	106	70-130	
o-Xylene	ug/L	50	49.7	99	70-130	
tert-Amyl Alcohol	ug/L	1000	1020	102	70-130	
tert-Amylmethyl ether	ug/L	100	95.0	95	70-130	
tert-Butyl Alcohol	ug/L	500	488	98	70-130	
tert-Butyl Formate	ug/L	400	380	95	70-130	
Toluene	ug/L	50	46.0	92	70-130	

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**QUALITY CONTROL DATA**

Project: Steady Simmons 18855/58463  
Pace Project No.: 92420649

LABORATORY CONTROL SAMPLE: 2516983

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Xylene (Total)	ug/L	150	147	98	70-130	
1,2-Dichloroethane-d4 (S)	%			100	70-130	
4-Bromofluorobenzene (S)	%			99	70-130	
Toluene-d8 (S)	%			97	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2516984 2516985

Parameter	Units	2516984		2516985		MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual	
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
1,2-Dichloroethane	ug/L	ND	20	18.9	19.1	94	96	70-130	1	30	
3,3-Dimethyl-1-Butanol	ug/L	ND	400	447	398	112	99	70-130	12	30	
Benzene	ug/L	ND	20	20.3	20.1	102	101	70-130	1	30	
Diisopropyl ether	ug/L	ND	20	19.0	24.4	95	122	70-130	25	30	
Ethanol	ug/L	ND	800	923	881	115	110	70-130	5	30	
Ethyl-tert-butyl ether	ug/L	ND	40	35.7	38.0	89	95	70-130	6	30	
Ethylbenzene	ug/L	ND	20	21.4	20.6	105	101	70-130	4	30	
m&p-Xylene	ug/L	ND	40	42.8	40.9	102	97	70-130	5	30	
Methyl-tert-butyl ether	ug/L	ND	20	19.5	24.3	97	122	70-130	22	30	
Naphthalene	ug/L	2.5J	20	20.2	20.5	88	90	70-130	1	30	
o-Xylene	ug/L	ND	20	21.4	20.4	102	97	70-130	5	30	
tert-Amyl Alcohol	ug/L	ND	400	397	374	99	93	70-130	6	30	
tert-Amylmethyl ether	ug/L	ND	40	39.8	39.2	100	98	70-130	2	30	
tert-Butyl Alcohol	ug/L	ND	200	263	314	132	157	70-130	17	30 M1	
tert-Butyl Formate	ug/L	ND	160	160	51.1	45.7J	32	29	70-130	30	P5
Toluene	ug/L	ND	20	22.2	19.7	104	91	70-130	12	30	
Xylene (Total)	ug/L	ND	60	64.2	61.3	107	102	70-130	5	30	
1,2-Dichloroethane-d4 (S)	%					99	99	70-130			
4-Bromofluorobenzene (S)	%					100	98	70-130			
Toluene-d8 (S)	%					105	98	70-130			

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### QUALITY CONTROL DATA

Project: Steady Simmons 18855/58463  
Pace Project No.: 92420649

QC Batch: 462393 Analysis Method: EPA 8260B  
QC Batch Method: EPA 8260B Analysis Description: 8260 MSV SC  
Associated Lab Samples: 92420649002

METHOD BLANK: 2517037 Matrix: Water  
Associated Lab Samples: 92420649002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	5.0	2.1	03/10/19 01:05	
3,3-Dimethyl-1-Butanol	ug/L	ND	100	53.9	03/10/19 01:05	
Benzene	ug/L	ND	5.0	1.7	03/10/19 01:05	
Diisopropyl ether	ug/L	ND	5.0	3.5	03/10/19 01:05	
Ethanol	ug/L	ND	200	144	03/10/19 01:05	
Ethyl-tert-butyl ether	ug/L	ND	10.0	8.5	03/10/19 01:05	
Ethylbenzene	ug/L	ND	5.0	1.8	03/10/19 01:05	
m&p-Xylene	ug/L	ND	10.0	4.1	03/10/19 01:05	
Methyl-tert-butyl ether	ug/L	ND	5.0	3.1	03/10/19 01:05	
Naphthalene	ug/L	ND	5.0	2.1	03/10/19 01:05	
o-Xylene	ug/L	ND	5.0	2.0	03/10/19 01:05	
tert-Amyl Alcohol	ug/L	ND	100	65.6	03/10/19 01:05	
tert-Amylmethyl ether	ug/L	ND	10.0	3.0	03/10/19 01:05	
tert-Butyl Alcohol	ug/L	ND	100	91.0	03/10/19 01:05	
tert-Butyl Formate	ug/L	ND	50.0	24.1	03/10/19 01:05	
Toluene	ug/L	ND	5.0	2.0	03/10/19 01:05	
Xylene (Total)	ug/L	ND	5.0	5.0	03/10/19 01:05	
1,2-Dichloroethane-d4 (S)	%	92	70-130		03/10/19 01:05	
4-Bromofluorobenzene (S)	%	102	70-130		03/10/19 01:05	
Toluene-d8 (S)	%	107	70-130		03/10/19 01:05	

LABORATORY CONTROL SAMPLE: 2517038

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	50	49.5	99	70-130	
3,3-Dimethyl-1-Butanol	ug/L	1000	1020	102	70-130	
Benzene	ug/L	50	52.4	105	70-130	
Diisopropyl ether	ug/L	50	54.0	108	70-130	
Ethanol	ug/L	2000	2060	103	70-130	
Ethyl-tert-butyl ether	ug/L	100	102	102	70-130	
Ethylbenzene	ug/L	50	51.5	103	70-130	
m&p-Xylene	ug/L	100	104	104	70-130	
Methyl-tert-butyl ether	ug/L	50	49.7	99	70-130	
Naphthalene	ug/L	50	52.9	106	70-130	
o-Xylene	ug/L	50	51.0	102	70-130	
tert-Amyl Alcohol	ug/L	1000	1060	106	70-130	
tert-Amylmethyl ether	ug/L	100	102	102	70-130	
tert-Butyl Alcohol	ug/L	500	489	98	70-130	
tert-Butyl Formate	ug/L	400	477	119	70-130	
Toluene	ug/L	50	49.2	98	70-130	

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### QUALITY CONTROL DATA

Project: Steady Simmons 18855/58463  
Pace Project No.: 92420649

LABORATORY CONTROL SAMPLE: 2517038

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Xylene (Total)	ug/L	150	155	104	70-130	
1,2-Dichloroethane-d4 (S)	%			103	70-130	
4-Bromofluorobenzene (S)	%			99	70-130	
Toluene-d8 (S)	%			97	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2517039 2517040

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92420652009 Result	Spike Conc.	Spike Conc.	MS Result						
1,2-Dichloroethane	ug/L	ND	80	80	85.0	86.2	106	108	70-130	1	30
3,3-Dimethyl-1-Butanol	ug/L	ND	1600	1600	1590	1650	100	103	70-130	4	30
Benzene	ug/L	41.4	80	80	133	134	114	115	70-130	1	30
Diisopropyl ether	ug/L	ND	80	80	88.6	88.4	111	110	70-130	0	30
Ethanol	ug/L	ND	3200	3200	3630	3640	114	114	70-130	0	30
Ethyl-tert-butyl ether	ug/L	ND	160	160	162	161	101	100	70-130	1	30
Ethylbenzene	ug/L	126	80	80	203	205	97	99	70-130	1	30
m&p-Xylene	ug/L	523	160	160	647	653	78	81	70-130	1	30
Methyl-tert-butyl ether	ug/L	ND	80	80	85.9	84.8	107	106	70-130	1	30
Naphthalene	ug/L	40.0	80	80	124	126	105	108	70-130	2	30
o-Xylene	ug/L	211	80	80	287	285	95	93	70-130	1	30
tert-Amyl Alcohol	ug/L	ND	1600	1600	1590	1640	99	103	70-130	3	30
tert-Amylmethyl ether	ug/L	ND	160	160	170	170	106	106	70-130	0	30
tert-Butyl Alcohol	ug/L	ND	800	800	1070	1090	133	136	70-130	2	30 M1
tert-Butyl Formate	ug/L	ND	640	640	ND	ND	0	0	70-130		30 M1
Toluene	ug/L	527	80	80	559	558	40	38	70-130	0	30 M1
Xylene (Total)	ug/L	734	240	240	934	938	83	85	70-130	0	30
1,2-Dichloroethane-d4 (S)	%							103	100	70-130	
4-Bromofluorobenzene (S)	%							100	101	70-130	
Toluene-d8 (S)	%							99	100	70-130	

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**QUALITY CONTROL DATA**

Project: Steady Simmons 18855/58463  
Pace Project No.: 92420649

QC Batch: 462544 Analysis Method: EPA 8011  
QC Batch Method: EPA 8011 Analysis Description: GCS 8011 EDB DBCP  
Associated Lab Samples: 92420649001

METHOD BLANK: 2517561  
Associated Lab Samples: 92420649001

Matrix: Water

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	0.020	0.020	03/11/19 17:28	
1-Chloro-2-bromopropane (S)	%	106	60-140		03/11/19 17:28	

LABORATORY CONTROL SAMPLE & LCSD: 2517562

2517563

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	0.25	0.31	0.29	126	118	60-140	6	20	
1-Chloro-2-bromopropane (S)	%				115	107	60-140			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2517565

2517566

Parameter	Units	92420469020 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dibromoethane (EDB)	ug/L	ND	0.25	0.25	0.29	0.29	117	117	60-140	0	20	
1-Chloro-2-bromopropane (S)	%						101	102	60-140			

SAMPLE DUPLICATE: 2517564

Parameter	Units	92420469019 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	ND		20	
1-Chloro-2-bromopropane (S)	%	102	112	7		

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

**REPORT OF LABORATORY ANALYSIS**

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**QUALITY CONTROL DATA**

Project: Steady Simmons 18855/58463  
Pace Project No.: 92420649

QC Batch: 462820 Analysis Method: EPA 8011  
QC Batch Method: EPA 8011 Analysis Description: GCS 8011 EDB DBCP  
Associated Lab Samples: 92420649002, 92420649003, 92420649004, 92420649005, 92420649006, 92420649007, 92420649008, 92420649009, 92420649010, 92420649011, 92420649012, 92420649013, 92420649014, 92420649015, 92420649016, 92420649017, 92420649018, 92420649019, 92420649020, 92420649021

METHOD BLANK: 2518596 Matrix: Water  
Associated Lab Samples: 92420649002, 92420649003, 92420649004, 92420649005, 92420649006, 92420649007, 92420649008, 92420649009, 92420649010, 92420649011, 92420649012, 92420649013, 92420649014, 92420649015, 92420649016, 92420649017, 92420649018, 92420649019, 92420649020, 92420649021

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	0.020	0.020	03/12/19 22:55	
1-Chloro-2-bromopropane (S)	%	125	60-140		03/12/19 22:55	

LABORATORY CONTROL SAMPLE & LCSD: 2518597 2518598

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	0.25	0.26	0.26	104	104	60-140	1	20	
1-Chloro-2-bromopropane (S)	%				98	99	60-140			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2518600 2518601

Parameter	Units	92420649003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dibromoethane (EDB)	ug/L	ND	0.25	0.25	0.25	0.26	102	107	60-140	5	20	
1-Chloro-2-bromopropane (S)	%						97	103	60-140			

SAMPLE DUPLICATE: 2518599

Parameter	Units	92420649002 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	1.4	1.4	1	20	
1-Chloro-2-bromopropane (S)	%	121	126	6		

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

**REPORT OF LABORATORY ANALYSIS**

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**QUALITY CONTROL DATA**

Project: Steady Simmons 18855/58463  
Pace Project No.: 92420649

QC Batch: 462824 Analysis Method: EPA 8011  
QC Batch Method: EPA 8011 Analysis Description: GCS 8011 EDB DBCP  
Associated Lab Samples: 92420649022, 92420649023, 92420649024, 92420649025, 92420649026, 92420649027, 92420649028, 92420649029, 92420649030

METHOD BLANK: 2518619 Matrix: Water  
Associated Lab Samples: 92420649022, 92420649023, 92420649024, 92420649025, 92420649026, 92420649027, 92420649028, 92420649029, 92420649030

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	0.020	0.020	03/12/19 18:01	
1-Chloro-2-bromopropane (S)	%	95	60-140		03/12/19 18:01	

LABORATORY CONTROL SAMPLE & LCSD: 2518620 2518621

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	0.25	0.27	0.27	107	108	60-140	2	20	
1-Chloro-2-bromopropane (S)	%				97	100	60-140			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2518623 2518624

Parameter	Units	92420649023 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dibromoethane (EDB)	ug/L	ND	0.25	0.25	0.29	0.27	116	110	60-140	5	20	
1-Chloro-2-bromopropane (S)	%						95	97	60-140			

SAMPLE DUPLICATE: 2518622

Parameter	Units	92420649022 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	ND		20	
1-Chloro-2-bromopropane (S)	%	99	100	1		

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

**REPORT OF LABORATORY ANALYSIS**

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## QUALIFIERS

Project: Steady Simmons 18855/58463  
Pace Project No.: 92420649

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### DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.  
ND - Not Detected at or above adjusted reporting limit.  
TNTC - Too Numerous To Count  
J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.  
MDL - Adjusted Method Detection Limit.  
PQL - Practical Quantitation Limit.  
RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.  
S - Surrogate  
1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.  
Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.  
LCS(D) - Laboratory Control Sample (Duplicate)  
MS(D) - Matrix Spike (Duplicate)  
DUP - Sample Duplicate  
RPD - Relative Percent Difference  
NC - Not Calculable.  
SG - Silica Gel - Clean-Up  
U - Indicates the compound was analyzed for, but not detected.  
Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.  
A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.  
N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.  
Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.  
TNI - The NELAC Institute.

### LABORATORIES

PASI-C Pace Analytical Services - Charlotte

### ANALYTE QUALIFIERS

L1 Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results for this analyte in associated samples may be biased high.  
M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.  
P5 The EPA or method required sample preservation degrades this compound, therefore acceptable recoveries may not be achieved in sample matrix spikes.

## REPORT OF LABORATORY ANALYSIS

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**QUALITY CONTROL DATA CROSS REFERENCE TABLE**

Project: Steady Simmons 18855/58463  
Pace Project No.: 92420649

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92420649001	MW-1R	EPA 8011	462544	EPA 8011	462613
92420649002	MW-2	EPA 8011	462820	EPA 8011	462888
92420649003	MW-3	EPA 8011	462820	EPA 8011	462888
92420649004	MW-4	EPA 8011	462820	EPA 8011	462888
92420649005	MW-5	EPA 8011	462820	EPA 8011	462888
92420649006	MW-6	EPA 8011	462820	EPA 8011	462888
92420649007	MW-7	EPA 8011	462820	EPA 8011	462888
92420649008	MW-8	EPA 8011	462820	EPA 8011	462888
92420649009	MW-9	EPA 8011	462820	EPA 8011	462888
92420649010	MW-10	EPA 8011	462820	EPA 8011	462888
92420649011	MW-11	EPA 8011	462820	EPA 8011	462888
92420649012	MW-12	EPA 8011	462820	EPA 8011	462888
92420649013	MW-13	EPA 8011	462820	EPA 8011	462888
92420649014	MW-14	EPA 8011	462820	EPA 8011	462888
92420649015	MW-15	EPA 8011	462820	EPA 8011	462888
92420649016	MW-16	EPA 8011	462820	EPA 8011	462888
92420649017	MW-17	EPA 8011	462820	EPA 8011	462888
92420649018	DW-1	EPA 8011	462820	EPA 8011	462888
92420649019	DW-2	EPA 8011	462820	EPA 8011	462888
92420649020	DW-3	EPA 8011	462820	EPA 8011	462888
92420649021	DW-4	EPA 8011	462820	EPA 8011	462888
92420649022	DW-5	EPA 8011	462824	EPA 8011	462889
92420649023	DW-6	EPA 8011	462824	EPA 8011	462889
92420649024	DW-7	EPA 8011	462824	EPA 8011	462889
92420649025	DW-8	EPA 8011	462824	EPA 8011	462889
92420649026	SW-1	EPA 8011	462824	EPA 8011	462889
92420649027	SW-2	EPA 8011	462824	EPA 8011	462889
92420649028	DUP-1	EPA 8011	462824	EPA 8011	462889
92420649029	DUP-2	EPA 8011	462824	EPA 8011	462889
92420649030	FB	EPA 8011	462824	EPA 8011	462889
92420649026	SW-1	EPA 8260B	462397		
92420649027	SW-2	EPA 8260B	462400		
92420649001	MW-1R	EPA 8260B	462371		
92420649002	MW-2	EPA 8260B	462393		
92420649003	MW-3	EPA 8260B	462370		
92420649004	MW-4	EPA 8260B	462371		
92420649005	MW-5	EPA 8260B	462371		
92420649006	MW-6	EPA 8260B	462369		
92420649007	MW-7	EPA 8260B	462369		
92420649008	MW-8	EPA 8260B	462369		
92420649009	MW-9	EPA 8260B	462369		
92420649010	MW-10	EPA 8260B	462369		
92420649011	MW-11	EPA 8260B	462371		

**REPORT OF LABORATORY ANALYSIS**

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**QUALITY CONTROL DATA CROSS REFERENCE TABLE**

Project: Steady Simmons 18855/58463  
Pace Project No.: 92420649

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92420649012	MW-12	EPA 8260B	462369		
92420649013	MW-13	EPA 8260B	462369		
92420649014	MW-14	EPA 8260B	462369		
92420649015	MW-15	EPA 8260B	462371		
92420649016	MW-16	EPA 8260B	462369		
92420649017	MW-17	EPA 8260B	462369		
92420649018	DW-1	EPA 8260B	462369		
92420649019	DW-2	EPA 8260B	462369		
92420649020	DW-3	EPA 8260B	462369		
92420649021	DW-4	EPA 8260B	462370		
92420649022	DW-5	EPA 8260B	462370		
92420649023	DW-6	EPA 8260B	462370		
92420649024	DW-7	EPA 8260B	462370		
92420649025	DW-8	EPA 8260B	462370		
92420649028	DUP-1	EPA 8260B	462370		
92420649029	DUP-2	EPA 8260B	462370		
92420649030	FB	EPA 8260B	462369		
92420649031	TB-1	EPA 8260B	462369		
92420649032	TB-2	EPA 8260B	462369		

**REPORT OF LABORATORY ANALYSIS**

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WO#: 92420649

**CHAIN-OF-CUSTODY Analytical Request Document**

LAB **92420649** or Number or

Company: **SCDHEC** Billing Information:

Address: **2600 Bull St. Columbia, SC**

Report To: **R. Dunn** Email To: **dunnra@dhewsc.gov**

Copy To: Site Collection Info/Address:

Customer Project Name/Number: **Steady Simmons** State: **SC** County/City: **Jasper** Time Zone Collected: **[ ] PT [ ] MT [ ] CT [ ] ET**

Phone: Site/Facility ID #: **18856** Compliance Monitoring? **[ ] Yes [ ] No**

Email: Purchased By (print): **Shawn Spratt** Purchase Order #: Quote #:

Collected By (signature): Turnaround Date Required: Immediately Packed on Ice: **[ ] Yes [ ] No**

Sample Disposal: Rush: **[ ] Same Day [ ] Next Day** Field Filtered (if applicable): **[ ] Yes [ ] No**

[ ] Archive: [ ] Hold: (Expedite Charges Apply) Analysis:

\* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID Matrix \* Comp / Grab Collected (or Composite Start) Composite End Res Cl # of Ctns

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start)		Composite End		Res Cl	# of Ctns
			Date	Time	Date	Time		
MW-1R	GW	G	3/7/19	12:37			6	X
MW-2	↑	↑	↑	13:29			↑	↑
MW-3	↑	↑	↑	12:39			↑	↑
MW-4	↑	↑	↑	10:36			↑	↑
MW-5	↑	↑	↑	11:32			↑	↑
MW-6	↑	↑	↑	11:24			↑	↑
MW-7	↑	↑	↑	11:17			↑	↑
MW-8	↑	↑	↑	10:58			↑	↑
MW-9	↓	↓	↓	10:30			↓	↓
MW-10	GW	G	3/7	12:19			6	X

Container Preservative Type \*\* **3 3** Lab Project Manager: **LY**

\*\* Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other

Analyses Lab Profile/Line:

Analyses	Lab Profile/Line:
	Lab Sample Receipt Checklist:
	Custody Seals Present/Intact <b>Y N NA</b>
	Custody Signatures Present <b>Y N NA</b>
	Collector Signature Present <b>Y N NA</b>
	Bottles Intact <b>Y N NA</b>
	Correct Bottles <b>Y N NA</b>
	Sufficient Volume <b>Y N NA</b>
	Samples Received on Ice <b>Y N NA</b>
	VOA - Headspace Acceptable <b>Y N NA</b>
	USDA Regulated Soils <b>Y N NA</b>
	Samples in Holding Time <b>Y N NA</b>
	Residual Chlorine Present <b>Y N NA</b>
	Cl Strips: <b>Y N NA</b>
	Sample pH Acceptable <b>Y N NA</b>
	pH Strips: <b>Y N NA</b>
	Sulfide Present <b>Y N NA</b>
	Lead Acetate Strips: <b>Y N NA</b>
	LAB USE ONLY: Lab Sample # / Comments: <b>92420649</b>

BTEX NM+OxyGS+12-DATPH-8011

EDB BY 8011

Customer Remarks / Special Conditions / Possible Hazards: Type of Ice Used: **Wet** Blue Dry None SHORT HOLDS PRESENT (<72 hours): **Y N N/A**

Packing Material Used: Lab Tracking #: **2343540**

Radchem sample(s) screened (<500 cpm): **Y N NA** Samples received via: **FEDEX UPS Client Courier Pace Courier**

Relinquished by/Company: (Signature) **[Signature] / MFCI** Date/Time: **3/8/19 10:21** Received by/Company: (Signature) **[Signature] Pace** Date/Time: **3-8-19 1021**

Relinquished by/Company: (Signature) **[Signature] Pace** Date/Time: **3-8-19 413** Received by/Company: (Signature) **[Signature]** Date/Time: **1613**

Relinquished by/Company: (Signature) Date/Time: Received by/Company: (Signature) Date/Time:

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start)	Composite End	Res Cl	# of Ctns	Odor
MW-1R	GW	G	3/7/19 12:37			6	Odor -001
MW-2	↑	↑	↑ 13:29			↑	Odor -002
MW-3	↑	↑	↑ 12:39			↑	No Odor -003
MW-4	↑	↑	↑ 10:36			↑	No Odor -004
MW-5	↑	↑	↑ 11:32			↑	No Odor -005
MW-6	↑	↑	↑ 11:24			↑	No Odor -006
MW-7	↑	↑	↑ 11:17			↑	No Odor -007
MW-8	↑	↑	↑ 10:58			↑	No Odor -008
MW-9	↓	↓	↓ 10:30			↓	No Odor -009
MW-10	GW	G	3/7 12:19			6	No Odor -010

Lab Sample Temperature Info: Temp Blank Received: **Y N NA** Therm ID#: **422046**

Cooler 1 Temp Upon Receipt: **21** °C Cooler 1 Therm Corr. Factor: °C Cooler 1 Corrected Temp: °C

Comments: **MD 3-8-19**

Trip Blank Received: **Y N NA** MeOH TSP Other

Non Conformance(s): YES / NO Page: **4**



# CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY

# WO#: 92420649

Number or

PM: AMB

Due Date: 03/15/19

CLIENT: 92-SCDHEC

Page 64 of 66

Company: **SCDHEC**

Address: **2600 Bull St. Columbia SC**

Report To:

Copy To:

Customer Project Name/Number: **Steady Simon SC/Jasper**

State: **SC** County/City: **Jasper** Time Zone Collected: **ET**

Phone: Site/Facility ID #: **18856** Compliance Monitoring?  Yes  No

Collected By (print): **Shawn Spratt** Purchase Order #: Quote #: DW PWS ID #: DW Location Code:

Collected By (signature): *[Signature]* Turnaround Date Required: Immediately Packed on Ice:  Yes  No

Sample Disposal:  Dispose as appropriate  Return  Archive  Hold: Rush:  Same Day  Next Day  2 Day  3 Day  4 Day  5 Day (Expedite Charges Apply) Field Filtered (if applicable):  Yes  No Analysis:

Container Preservative Type: **3 3**

\*\* Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other

\* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start)		Composite End		Res Cl	# of Ctns
			Date	Time	Date	Time		
MW-11	GW	G	3/7	11:39				6
MW-12	↑	↑	↑	11:07				↑
MW-13	↑	↑	↑	10:51				↑
MW-14	↑	↑	↑	12:35				↑
MW-15	↑	↑	↑	12:59				↑
MW-16	↑	↑	↑	11:55				↑
MW-17	↑	↑	↑	10:18				↑
DW-1	↓	↓	↓	10:51				↓
DW-2	↓	↓	↓	10:14				↓
DW-3	GW	G	3/7	12:03				6

Analyses

Lab Profile/Line:

Lab Sample Receipt Checklist:

Custody Seals Present/Intact Y N  NA

Custody Signatures Present Y N  NA

Collector Signature Present Y N  NA

Bottles Intact  N NA

Correct Bottles  N NA

Sufficient Volume  N NA

Samples Received on Ice  N NA

VOA - Headspace Acceptable  N NA

USDA Regulated Soils Y N  NA

Samples in Holding Time Y N  NA

Residual Chlorine Present Y N  NA

Cl Strips: \_\_\_\_\_

Sample pH Acceptable Y N  NA

pH Strips: \_\_\_\_\_

Sulfide Present Y N  NA

Lead Acetate Strips: \_\_\_\_\_

LAB USE ONLY:  
Lab Sample # / Comments:

BTEXNM + OXYGSLA-DUMETH-SUB

EDB BY 8011

Customer Remarks / Special Conditions / Possible Hazards:

Type of Ice Used:  Wet  Blue  Dry  None

Packing Material Used:

Radchem sample(s) screened (<500 cpm): Y N NA

SHORT HOLDS PRESENT (<72 hours): Y N  N/A

Lab Tracking #: **2343542**

Samples received via: FEDEX UPS Client Courier Pace Courier

Lab Sample Temperature Info:

Temp Blank Received: Y N  NA

Therm ID#: **927046**

Cooler 1 Temp Upon Receipt: **2.1** °C

Cooler 1 Therm Corr. Factor: \_\_\_\_\_ °C

Cooler 1 Corrected Temp: \_\_\_\_\_ °C

Comments:

Relinquished by/Company: (Signature) *[Signature]* Date/Time: **3/8/19 10:21**

Relinquished by/Company: (Signature) *[Signature]* Date/Time: **3-8-19 4:0**

Relinquished by/Company: (Signature) \_\_\_\_\_ Date/Time: \_\_\_\_\_

Received by/Company: (Signature) *[Signature]* Date/Time: **2-8-19 10:24**

Received by/Company: (Signature) *[Signature]* Date/Time: **3-8-19 10:13**

Received by/Company: (Signature) \_\_\_\_\_ Date/Time: \_\_\_\_\_

MTJL LAB USE ONLY

Table #: \_\_\_\_\_

Acctnum: \_\_\_\_\_

Template: \_\_\_\_\_

Prelogin: \_\_\_\_\_

PM: \_\_\_\_\_

PB: \_\_\_\_\_

Trip Blank Received:  N NA

UCL MeOH TSP Other

Non Conformance(s): YES / NO

Page: **3** of: **4**

WO#: 92420649

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**CHAIN-OF-CUSTODY Analytical Request Document**  
 Pace Analytical™  
 Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LA **PM: AMB** Due Date: 03/15/19  
**CLIENT: 92-SCDHEC**

Company: **SCDHEC**  
 Address: **2600 Bull St, Columbia SC**  
 Report To:  
 Copy To:

Billing Information:  
 Container Preservative Type \*\*  
 Lab Project Manager:  
 Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other

Customer Project Name/Number: **Steady Simmons**  
 State: **SC** County/City: **Jasper** Time Zone Collected: **ET**  
 Phone: Site/Facility ID #: **18856**  
 Email: Compliance Monitoring? [ ] Yes [ ] No  
 Collected By (print): **Shawn Sprott** Purchase Order #: DW PWS ID #: DW Location Code:  
 Collected By (signature): Turnaround Date Required: Immediately Packed on Ice: [ ] Yes [ ] No  
 Sample Disposal: Rush: [ ] Same Day [ ] Next Day [ ] 2 Day [ ] 3 Day [ ] 4 Day [ ] 5 Day (Expedite Charges Apply)  
 [ ] Dispose as appropriate [ ] Return [ ] Archive: [ ] Hold:

Analyses										Lab Profile/Line:
										Lab Sample Receipt Checklist: Custody Seals Present/Intact Y N <b>NA</b> Custody Signatures Present Y N <b>NA</b> Collector Signature Present Y N <b>NA</b> Bottles Intact Y N <b>NA</b> Correct Bottles Y N <b>NA</b> Sufficient Volume Y N <b>NA</b> Samples Received on Ice Y N <b>NA</b> VOA - Headspace Acceptable Y N <b>NA</b> USDA Regulated Soils Y N <b>NA</b> Samples in Holding Time Y N <b>NA</b> Residual Chlorine Present Y N <b>NA</b> Cl Strips: Sample pH Acceptable Y N <b>NA</b> pH Strips: Sulfide Present Y N <b>NA</b> Lead Acetate Strips:

\* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start)		Composite End		Res Cl	# of Ctns	Analyses										Lab Sample # / Comments:				
			Date	Time	Date	Time			1	2	3	4	5	6	7	8	9	10		11	12		
DW-4	GW	G	3/7	11:22				6	X	X												No Odor	-021
DW-5				13:20					X	X												No Odor	-022
DW-6				12:31					X	X												No Odor	-023
DW-7				13:04					X	X												No Odor	-024
DW-8				10:12					X	X												No Odor	-025
SW-1				13:37					X	X												LDL	-026
SW-2				13:29					X	X												LDL	-027
SW-3																						DNS	
DUP-1				12:19					X	X												No Odor	-028
DUP-2	GW	G	3/7	12:35				6	X	X												No Odor	-029

Customer Remarks / Special Conditions / Possible Hazards:  
 Type of Ice Used: **Wet** Blue Dry None  
 Packing Material Used:  
 Radchem sample(s) screened (<500 cpm): Y N NA

SHORT HOLDS PRESENT (<72 hours): Y N **N/A**  
 Lab Tracking #: **2343541**  
 Samples received via: FEDEX UPS Client Courier **Pace Courier**

Lab Sample Temperature Info:  
 Temp Blank Received: Y N **NA**  
 Therm ID#: **42046**  
 Cooler 1 Temp Upon Receipt: **21** °C  
 Cooler 1 Therm Corr. Factor: °C  
 Cooler 1 Corrected Temp: °C  
 Comments:

Relinquished by/Company: (Signature) **MFCI** Date/Time: **3/8/19 10:21**  
 Relinquished by/Company: (Signature) **Shawn Sprott** Date/Time: **3-8-19 4:13**  
 Relinquished by/Company: (Signature)

Received by/Company: (Signature) **William Pace** Date/Time: **3-8-19 10:21**  
 Received by/Company: (Signature) **Richard** Date/Time: **3-8-19 16:13**  
 Received by/Company: (Signature)  
 MTJL LAB USE ONLY  
 Table #: Acctnum: Template: Prelogin: PM: PB:  
 Trip Blank Received: **Y** N **NA**  
 HCL MeOH TSP Other **MD**  
 Non Conformance(s): Page: **3**  
 YES / NO of: **4**



LAB USE ON

PM: AMB

Due Date: 03/15/19

er or

CLIENT: 92-SCDHEC

CHAIN-OF-CUSTODY Analytical Request Document

Pace Analytical Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

Company: SCDHEC, Billing Information, Address: 2600 Bull St, Columbia, SC, Report To: R. Dunn, Email To: rdunn@dhcc.sc.gov, Copy To: Site Collection Info/Address, Customer Project Name/Number: Steady Simmons, State: SC, County/City: Jasper, Time Zone Collected: [ ] PT [ ] MT [ ] CT [ ] ET, Phone: , Site/Facility ID #: 18856, Compliance Monitoring? [ ] Yes [ ] No, Collected By (print): Shawn Sprott, Purchase Order #: , DW PWS ID #: , DW Location Code: , Collected By (signature): [Signature], Turnaround Date Required: , Immediately Packed on Ice: [ ] Yes [ ] No, Sample Disposal: [ ] Dispose as appropriate [ ] Return [ ] Archive [ ] Hold, Rush: [ ] Same Day [ ] Next Day [ ] 2 Day [ ] 3 Day [ ] 4 Day [ ] 5 Day (Expedite Charges Apply), Field Filtered (if applicable): [ ] Yes [ ] No, Analysis: , \* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Container Preservative Type \*\*, Lab Project Manager: [Blank]

\*\* Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other

Table with columns for Analyses and Lab Profile/Line. Lab Profile/Line includes Custody Seals Present/Intact, Custody Signatures Present, Collector Signature Present, Bottles Intact, Correct Bottles, Sufficient Volume, Samples Received on Ice, VOA - Headspace Acceptable, USDA Regulated Soils, Samples in Holding Time, Residual Chlorine Present, Cl Strips, Sample pH Acceptable, pH Strips, Sulfide Present, Lead Acetate Strips.

Main data table with columns: Customer Sample ID, Matrix\*, Comp / Grab, Collected (or Composite Start) Date and Time, Composite End Date and Time, Res Cl, # of Ctns. Rows include FB, TB-1, TB-2.

Customer Remarks / Special Conditions / Possible Hazards, Type of Ice Used: Wet Blue Dry None, SHORT HOLDS PRESENT (<72 hours): Y N N/A, Packing Material Used: , Lab Tracking #: 2342819, Radchem sample(s) screened (<500 cpm): Y N NA, Samples received via: FEDEX UPS Client Courier Face Courier

Relinquished by/Company: (Signature), Date/Time, Received by/Company: (Signature), Date/Time. Includes signatures and dates for three handovers.

Lab Sample Temperature Info: Temp Blank Received: Y N NA, Therm ID#: AN1016, Cooler 1 Temp Upon Receipt: 27 oC, Cooler 1 Therm Corr. Factor: oC, Cooler 1 Corrected Temp: oC, Comments: ino 3-8-19, Trip Blank Received: N NA, HCL MeOH TSP Other, Non Conformance(s): YES / NO, Page: 4 of 4

Vertical handwritten notes: BTEXM+OXYG+S+J2-DCA+ETH-826.08, EDB BY 801



MR TREVER Z SLACK PG  
PETRA-TECH ENVIRONMENTAL LLC  
2435 EAST NORTH STREET SUITE 1108-202  
GREENVILLE SC 29615

NOV 13 2019



Re: Monitoring Well Abandonment  
Bid #IFB-5400013378-6/6/17-EMW; Purchase Order #4600656237

Dear Mr. Slack:

Under the terms and conditions of the referenced bid package, monitoring well abandonment has been approved for the facility listed below. The facility been assigned an individual cost agreement (CA) number and report is due within 60 days from the date of this letter. Please reference the appropriate CA number and Purchase Order #4600656237 on the invoice submitted for payment.

UST Permit	Facility	County	Wells	Total Footage	Cost Agreement
18856	Steady Simmons	Jasper	14	359	60665

If you have any questions or need further assistance, please contact me by telephone at (803) 898-7705 or by e-mail to [wykeljm@dhec.sc.gov](mailto:wykeljm@dhec.sc.gov). If you have any contract specific questions, please contact Quincy Hoffer at (803) 898-0655 or via e-mail at [hofferqm@dhec.sc.gov](mailto:hofferqm@dhec.sc.gov).

Sincerely,

Matt Wykel, Hydrogeologist  
Corrective Action and Field Support Section  
Underground Storage Tank Management Division  
Bureau of Land and Waste Management

enc. Approved Cost Agreement (CA)  
Abandonment Package

cc: Quincy Hoffer, Corrective Action & Quality Assurance Section, UST Management Division (w/CA Copy)  
Technical File (w/enc)



UNDERGROUND STORAGE TANK MANAGEMENT DIVISION  
BUREAU OF LAND AND WASTE MANAGEMENT  
2600 Bull Street, Columbia, South Carolina 29201  
Telephone: 803-896-6240

**MEMORANDUM**

TO: Trever Z. Slack - Petra-Tech Environmental, LLC

FROM: Matt Wykel

RE: Notice To Proceed  
Please Abandon only wells that are highlighted on the attached site map.

Facility Name: Steady Simmons

Permit Number: 18856

County: Jasper

Work To Be Completed: Abandonment of highlighted wells on the site map

Number of Wells: 14

Total Footage: 359

CA #: 60665

**Approved Cost Agreement      60665**

Facility: 18856    STEADY SIMMONS

GRIFFIZA

PO Number:

<u>Task / Description</u>	<u>Categories</u>	<u>Item Description</u>	<u>Qty / Pct</u>	<u>Unit Price</u>	<u>Amount</u>
04 MOB/DEMOB		A1 EQUIPMENT	1.0000	\$475.000	475.00
		B1 PERSONNEL	2.0000	\$250.000	500.00
08 ABANDONMENT		A1 ABANDONMENT 2" DIA OR LESS	359.0000	\$1.000	359.00
<b>Total Amount</b>					<b>1,334.00</b>

**Document Receipt Information**

Hard Copy

CD

Email

Date Received Jan 14, 2020

Permit Number 18856

Project Manager Matt Wyke

Name of Contractor Petra-Tech

UST Certification Number Report of MWA

Docket Number 74tech

Scanned \_\_\_\_\_



January 11, 2020

South Carolina Department of Health and Environmental Control  
Division of Underground Storage Tank Management  
Bureau of Land and Waste Management  
2600 Bull Street  
Columbia, South Carolina 29201-1708

Attention: Mr. Matt Wykel

Subject: **Report of Monitoring Well Abandonment  
Steady Simmons**  
16661 Grays Highway  
Early Branch, Jasper County, South Carolina  
SCDHEC UST Permit #18856  
Cost Agreement #60665  
PTE Job No. J19-841-A

Dear Mr. Wykel:

In accordance with Solicitation Number IFB-5400013378-6/6/17-EMW (Purchase Order #4600571460), Petra-Tech Environmental, LLC submits herein the completed *Report of Monitoring Well Abandonment* for the subject site. This submittal is in response to the South Carolina Department of Health and Environmental Control's (SCDHEC) directive letter dated November 13, 2019.

#### Summary of Monitoring Well Abandonment Activities

Petra-Tech Environmental staff mobilized to the subject site to perform an initial site reconnaissance to locate and photograph the wells scheduled for abandonment. The groundwater monitoring well abandonments were completed on January 9, 2020. The well pad, vault, and cover of those monitoring wells located in non-paved areas were removed prior to abandonment, and topsoil/gravel was placed in the void area following abandonment. South Carolina 1903 Well Abandonment Forms are included as **Attachment A**. Post-abandonment photographs in addition to pre-abandonment photographs are included as **Attachment B**.

Monitoring well construction data is detailed below:

Monitoring Well ID	Total Well Depth (feet)	Monitoring Well Abandoned	Notes
MW-3	17	Yes	Monitoring well located in grassed area. Well cover, manhole vault, and well pad were removed during abandonment. Void area was filled with gravel.

MW-4	17	Yes	Monitoring well located in grassed area. Well cover, manhole vault, and well pad were removed during abandonment. Void area was filled with gravel.
MW-11	15	Yes	Monitoring well located in grassed area. Well cover, manhole vault, and well pad were removed during abandonment. Void area was filled with gravel.
MW-12	15	Yes	Monitoring well located in grassed area. Well cover, manhole vault, and well pad were removed during abandonment. Void area was filled with gravel.
MW-13	15	Yes	Monitoring well located in grassed area. Well cover, manhole vault, and well pad were removed during abandonment. Void area was filled with gravel.
MW-14	15	Yes	Monitoring well located in grassed area. Well cover, manhole vault, and well pad were removed during abandonment. Void area was filled with topsoil.
MW-15	20	Yes	Monitoring well located in grassed area. Well cover, manhole vault, and well pad were removed during abandonment. Void area was filled with topsoil.
MW-16	20	Yes	Monitoring well located in grassed area. Well cover, manhole vault, and well pad were removed during abandonment. Void area was filled with topsoil.
MW-17	14	Yes	Monitoring well located in grassed area. Well cover, manhole vault, and well pad were removed during abandonment. Void area was filled with topsoil.

DW-3	40	Yes	Monitoring well located in grassed area. Well cover, manhole vault, and well pad were removed during abandonment. Void area was filled with topsoil.
DW-4	38	Yes	Monitoring well located in grassed area. Well cover, manhole vault, and well pad were removed during abandonment. Void area was filled with topsoil.
DW-5	38	Yes	Monitoring well located in grassed area. Well cover, manhole vault, and well pad were removed during abandonment. Void area was filled with topsoil.
DW-6	36	Yes	Monitoring well located in grassed area. Well cover, manhole vault, and well pad were removed during abandonment. Void area was filled with topsoil.
DW-7	36	Yes	Monitoring well located in grassed area. Well cover, manhole vault, and well pad were removed during abandonment. Void area was filled with topsoil.
DW-8	40	Yes	Monitoring well located in grassed area. Well cover, manhole vault, and well pad were removed during abandonment. Void area was filled with topsoil.

Please do not hesitate to contact us at 864.436.6322 if you have any questions concerning this submittal.

Sincerely,

**Petra-Tech Environmental**



**ATTACHMENT A**



**Water Well Record**  
**Bureau of Water**  
 2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

<b>1. WELL OWNER INFORMATION:</b> Name: <b>SCDHEC</b>  (last) (first) Address: <b>2600 Bull Street</b>  City: <b>Columbia</b> State: <b>SC</b> Zip:  Phone:			<b>7. PERMIT NUMBER:</b> <span style="float:right"><b>UST # 18856</b></span>	
			<b>8. USE:</b> Residential      Public Supply      Process Irrigation          Air Conditioning      Emergency Test Well <b>Monitor Well</b> Replacement	
<b>2. LOCATION OF WELL:</b> <b>COUNTY:</b> Jasper Name: <b>Steady Simmons</b> Address: <b>1661 Grays Highway</b> City: <b>Early Branch</b>			<b>9. WELL DEPTH (completed)</b>  Date Started: _____ Date Completed: _____ ft.	
<b>3. PUBLIC SYSTEM NAME:</b> 18856 - MW-3			<b>10. CASING:</b> Threaded      Welded  Diameter: _____ Type: _____ _____ in. to _____ ft. depth _____ in. to _____ ft. depth  Height: Below Surface: _____ ft.      Weight: lb./ft. Drive Shoe:	
<b>4. ABANDONMENT:</b> Yes  Grouted Depth: from <u>0.00</u> to <u>17.00</u> ft.			<b>11. SCREEN:</b>  Type: _____ Diameter: _____ Slot/Gauge: _____ Length: _____ Set Between: _____ ft. and _____ ft. _____ ft. and _____ ft. Sieve Analysis: Y/N	
Formation Description	Thickness of Stratum	Depth to Bottom of Stratum	<b>12. STATIC WATER LEVEL</b> _____ ft. below land surface after 24 hours.	
			<b>13. PUMPING LEVEL Below Land Surface.</b> _____ ft. after _____ hrs Pumping      GPM Pumping Test: _____ Yield: _____	
			<b>14. WATER QUALITY</b> Chemical Analysis: _____ Bacterial Analysis: _____	
			<b>15. ARTIFICIAL FILTER (filter pack)</b> Installed from: _____ ft. to _____ ft. Effective Size: _____ Uniformity Coefficient: _____	
			<b>16. WELL GROUTED?</b> Neat Cement      Bentonite      Bentonite/Cement      Other Depth: From _____ ft. to _____ ft.	
			<b>17. NEAREST SOURCE OF POSSIBLE CONTAMINATION:</b> _____ ft. direction Type: _____ Well Disinfected: _____ Type: _____ Amount: _____	
			<b>18. PUMP:</b> Date installed: _____ Mfr. Name: _____ Model no.: _____ H.P.: _____ Volts: _____ Length of pipe: _____ ft. Capacity: _____ gpm TYPE:      Submersible      Jet (shallow)      Turbine Jet (deep)      Reciprocating      Centrifugal	
			<b>19. WELL DRILLER:</b> Robyn Barkley <b>CERT NO.:</b> 934 Address:      Petra-Tech Environmental      Level: <u>A</u> B C D 2435 East North St, Ste 1108-202 Greenville, SC 29615 Telephone: 864.631.2490      Fax: 888.638.9034	
<b>5. REMARKS:</b>      			<b>20. WATER WELL DRILLER'S CERTIFICATION:</b> This well was drilled under my direction and this report is true to the best of my knowledge and belief.  <div style="text-align: center;"> </div> Signed: _____  Date: <u>1/9/20</u>	
			If D Level Driller, provide supervising driller's name.	
<b>6. TYPE:</b> Jetted      Bored Dug      Air Rotary      Driven Cable tool      Auger      Other				





**Water Well Record**  
**Bureau of Water**  
 2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

<b>1. WELL OWNER INFORMATION:</b> Name: <b>SCDHEC</b>  (last) (first) Address: <b>2600 Bull Street</b>  City: <b>Columbia</b> State: <b>SC</b> Zip:  Phone:			<b>7. PERMIT NUMBER:</b> <span style="float:right"><b>UST # 18856</b></span>																															
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			<b>9. WELL DEPTH (completed)</b>  Date Started: _____ Date Completed: _____ ft.																															
<b>3. PUBLIC SYSTEM NAME:</b> 18856 - MW-11  <b>4. ABANDONMENT:</b> Yes Grouted Depth: from <u>0.00</u> to <u>15.00</u> ft.			<b>10. CASING:</b> Threaded      Welded Diameter: _____ Type: _____ _____ in. to _____ ft. depth _____ in. to _____ ft. depth Height: Below Surface: _____ ft.      Weight: lb./ft. Drive Shoe: _____																															
			<b>11. SCREEN:</b> Type: _____ Diameter: _____ Slot/Gauge: _____ Length: _____ Set Between: _____ ft. and _____ ft. _____ ft. and _____ ft. Sieve Analysis: Y/N																															
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:70%;">Formation Description</th> <th style="width:10%;">Thickness of Stratum</th> <th style="width:20%;">Depth to Bottom of Stratum</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </tbody> </table>			Formation Description	Thickness of Stratum	Depth to Bottom of Stratum																												<b>12. STATIC WATER LEVEL</b> _____ ft. below land surface after 24 hours. <b>13. PUMPING LEVEL</b> Below Land Surface. _____ ft. after _____ hrs Pumping      GPM Pumping Test: _____ Yield: _____	
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Depth: From _____	_____	_____	_____																															
_____	_____	_____	_____																															
<b>17. NEAREST SOURCE OF POSSIBLE CONTAMINATION:</b> _____ ft. direction Type: _____ Well Disinfected: _____ Type: _____ Amount: _____																																		
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<b>20. WATER WELL DRILLER'S CERTIFICATION:</b> This well was drilled under my direction and this report is true to the best of my knowledge and belief.  <div style="text-align: right;">             Signed: _____            Date: <b>1/9/20</b> </div> If D Level Driller, provide supervising driller's name.																																		
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<b>6. TYPE:</b> <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th>Jetted</th> <th>Bored</th> </tr> </thead> <tbody> <tr> <td>Dug</td> <td>Air Rotary</td> <td>Driven</td> </tr> <tr> <td>Cable tool</td> <td>Auger</td> <td>Other</td> </tr> </tbody> </table>				Jetted	Bored	Dug	Air Rotary	Driven	Cable tool	Auger	Other																							
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## Water Well Record

### Bureau of Water

2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

**1. WELL OWNER INFORMATION:**  
 Name: **SCDHEC**  
 (last) (first)  
 Address: **2600 Bull Street**  
 City: **Columbia** State: **SC** Zip: \_\_\_\_\_  
 Phone: \_\_\_\_\_

**2. LOCATION OF WELL:** COUNTY: **Jasper**  
 Name: **Steady Simmons**  
 Address: **1661 Grays Highway**  
 City: **Early Branch**

**3. PUBLIC SYSTEM NAME:** 18856 - MW-12

**4. ABANDONMENT:** Yes  
 Grouted Depth: from 0.00 to 15.00 ft.

Formation Description	Thickness of Stratum	Depth to Bottom of Stratum

**5. REMARKS:**

**6. TYPE:**

Dug	Jetted	Bored
Cable tool	Air Rotary	Driven
	Auger	Other

**7. PERMIT NUMBER:** \_\_\_\_\_ **UST #** 18856

**8. USE:**

Residential	Public Supply	Process
Irrigation	Air Conditioning	Emergency
Test Well	<b>Monitor Well</b>	Replacement

**9. WELL DEPTH (completed)**  
 Date Started: \_\_\_\_\_  
 Date Completed: \_\_\_\_\_

**10. CASING:** Threaded \_\_\_\_\_ Welded \_\_\_\_\_

Diameter: \_\_\_\_\_  
 Type: \_\_\_\_\_  
 \_\_\_\_\_ in. to \_\_\_\_\_ ft. depth  
 \_\_\_\_\_ in. to \_\_\_\_\_ ft. depth

Height: Below \_\_\_\_\_  
 Surface: \_\_\_\_\_ ft. Weight: \_\_\_\_\_ lb./ft.  
 Drive Shoe: \_\_\_\_\_

**11. SCREEN:**

Type: \_\_\_\_\_ Diameter: \_\_\_\_\_  
 Slot/Gauge: \_\_\_\_\_ Length: \_\_\_\_\_  
 Set Between: \_\_\_\_\_ ft. and \_\_\_\_\_ ft.  
 \_\_\_\_\_ ft. and \_\_\_\_\_ ft.  
 Sieve Analysis: Y/N

**12. STATIC WATER LEVEL** \_\_\_\_\_ ft. below land surface after 24 hours.

**13. PUMPING LEVEL Below Land Surface.**  
 \_\_\_\_\_ ft. after \_\_\_\_\_ hrs Pumping GPM  
 Pumping Test: \_\_\_\_\_  
 Yield: \_\_\_\_\_

**14. WATER QUALITY**  
 Chemical Analysis: \_\_\_\_\_ Bacterial Analysis: \_\_\_\_\_

**15. ARTIFICIAL FILTER (filter pack)**  
 Installed from: \_\_\_\_\_ ft. to \_\_\_\_\_ ft.  
 Effective Size: \_\_\_\_\_ Uniformity Coefficient: \_\_\_\_\_

**16. WELL GROUTED?**

Neat Cement	Bentonite	Bentonite/Cement	Other
Depth: From _____	_____	_____	_____
	ft. to	ft.	ft.

**17. NEAREST SOURCE OF POSSIBLE CONTAMINATION:** \_\_\_\_\_ ft. direction  
 Type: \_\_\_\_\_  
 Well Disinfected: \_\_\_\_\_ Type: \_\_\_\_\_ Amount: \_\_\_\_\_

**18. PUMP:** Date installed: \_\_\_\_\_

Mfr. Name: \_\_\_\_\_ Model no.: \_\_\_\_\_  
 H.P.: \_\_\_\_\_ Volts: \_\_\_\_\_ Length of pipe: \_\_\_\_\_ ft.  
 Capacity: \_\_\_\_\_ gpm

TYPE: Submersible \_\_\_\_\_ Jet (shallow) \_\_\_\_\_ Turbine \_\_\_\_\_  
 Jet (deep) \_\_\_\_\_ Reciprocating \_\_\_\_\_ Centrifugal \_\_\_\_\_

**19. WELL DRILLER:** Robyn Barkley **CERT NO.:** 934  
 Address: Petra-Tech Environmental Level: **A** B C D  
 2435 East North St, Ste 1108-202  
 Greenville, SC 29615  
 Telephone: 864.631.2490 Fax: 888.838.9034

**20. WATER WELL DRILLER'S CERTIFICATION:** This well was drilled under my direction and this report is true to the best of my knowledge and belief.

Signed: Robyn Barkley  
 Date: 1/9/20

If D Level Driller, provide supervising driller's name.



**Water Well Record**  
**Bureau of Water**  
 2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

<b>1. WELL OWNER INFORMATION:</b> Name: <b>SCDHEC</b>  (last) (first) Address: <b>2600 Bull Street</b>  City: <b>Columbia</b> State: <b>SC</b> Zip: _____  Phone: _____			<b>7. PERMIT NUMBER:</b> _____ <b>UST #</b> 18856																																																																				
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<b>4. ABANDONMENT:</b> Yes Grouted Depth: from <u>0.00</u> to <u>15.00</u> ft.			<b>10. CASING:</b> Threaded _____ Welded _____ Diameter: _____ Type: _____ _____ in. to _____ ft. depth _____ in. to _____ ft. depth Height: Below _____ Surface: _____ ft. Weight: _____ lb./ft. Drive Shoe: _____																																																																				
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**Water Well Record**  
**Bureau of Water**  
2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

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**Water Well Record**  
**Bureau of Water**  
 2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

**1. WELL OWNER INFORMATION:**  
 Name: **SCDHEC**  
 (last) (first)  
 Address: **2600 Bull Street**  
 City: **Columbia** State: **SC** Zip:  
 Phone:

**2. LOCATION OF WELL:** COUNTY: **Jasper**  
 Name: **Steady Simmons**  
 Address: **1661 Grays Highway**  
 City: **Early Branch**

**3. PUBLIC SYSTEM NAME:** 18856 - DW-4

**4. ABANDONMENT:** Yes  
 Grouted Depth: from 0.00 to 38.00 ft.

Formation Description	Thickness of Stratum	Depth to Bottom of Stratum

**5. REMARKS:**

**6. TYPE:** Jetted Bored  
 Dug Air Rotary Driven  
 Cable tool Auger Other

**7. PERMIT NUMBER:** **UST # 18856**

**8. USE:**  
 Residential Public Supply Process  
 Irrigation Air Conditioning Emergency  
 Test Well Monitor Well Replacement

**9. WELL DEPTH (completed)**  
 Date Started:  
 Date Completed:

**10. CASING:** Threaded Welded  
 Diameter: \_\_\_\_\_  
 Type: \_\_\_\_\_  
 \_\_\_\_\_ in. to \_\_\_\_\_ ft. depth  
 \_\_\_\_\_ in. to \_\_\_\_\_ ft. depth  
 Height: Below  
 Surface: \_\_\_\_\_ ft. Weight: lb./ft.  
 Drive Shoe:

**11. SCREEN:**  
 Type: \_\_\_\_\_ Diameter: \_\_\_\_\_  
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 Set Between: \_\_\_\_\_ ft. and \_\_\_\_\_ ft.  
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**12. STATIC WATER LEVEL** \_\_\_\_\_ ft. below land surface after 24 hours.

**13. PUMPING LEVEL Below Land Surface.**  
 \_\_\_\_\_ ft. after \_\_\_\_\_ hrs Pumping GPM  
 Pumping Test: \_\_\_\_\_  
 Yield:

**14. WATER QUALITY**  
 Chemical Analysis: Bacterial Analysis:

**15. ARTIFICIAL FILTER (filter pack)**  
 Installed from: \_\_\_\_\_ ft. to \_\_\_\_\_ ft.  
 Effective Size: Uniformity Coefficient:

**16. WELL GROUTED?**  
 Neat Cement Bentonite Bentonite/Cement Other  
 Depth: From \_\_\_\_\_ ft. to \_\_\_\_\_ ft.

**17. NEAREST SOURCE OF POSSIBLE CONTAMINATION:** \_\_\_\_\_ ft. direction  
 Type: \_\_\_\_\_  
 Well Disinfected: Type: Amount:

**18. PUMP:** Date installed: \_\_\_\_\_  
 Mfr. Name: Model no.: \_\_\_\_\_  
 H.P.: Volts: Length of pipe: ft.  
 Capacity: gpm  
 TYPE: Submersible Jet (shallow) Turbine  
 Jet (deep) Reciprocating Centrifugal

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 Address: Petra-Tech Environmental Level: **(A)** B C D  
 2435 East North St, Ste 1108-202  
 Greenville, SC 29615  
 Telephone: 864.631.2490 Fax: 888.838.9034



**20. WATER WELL DRILLER'S CERTIFICATION:** This well was drilled under my direction and this report is true to the best of my knowledge and belief.

Signed: Robyn Barkley  
 Date: 1/9/20  
 If D Level Driller, provide supervising driller's name.







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**ATTACHMENT B**

MW-3



MW-4



MW-11



MW-12



MW-13



MW-14



MW-15



MW-16



MW-17



DW-3



DW-4



DW-5



DW-6



DW-7



DW-8





18856

AUG 18 2021



MR BRYAN SHANE PG  
MIDLANDS ENVIRONMENTAL CONSULTANTS  
PO BOX 854  
LEXINGTON SC 29071

Re: Site Specific Work Plan Request  
Groundwater Sampling Contract  
Solicitation #IFB-5400021335

Dear Mr. Shane:

In accordance with bid solicitation # IFB-5400021335, submission of a Site-Specific Work Plan (SSWP) based on each site information package provided is requested.

The SSWP must be submitted within 20 calendar days of the date of this correspondence. The project manager for each site will issue a notice to proceed once the plan has been reviewed and approved. A weekly update for each site should be emailed to the site's project manager and myself. If you have any questions or need further assistance, please contact me by phone (803) 898-7705 or email [wykeljm@dhec.sc.gov](mailto:wykeljm@dhec.sc.gov).

Sincerely,

Matt Wykel, Hydrogeologist  
Corrective Action & Field Support Section  
UST Management Division  
Bureau of Land & Waste Management

Enc: Site Information Package Summary (SIPS)  
Site Information Packages

Cc: Lindsey Wooten, Pace Analytical Services, 9800 Kincey Ave. STE 100, Huntersville, NC 28078 (w/ SIPS)  
Technical File (w/o Enc)



UNDERGROUND STORAGE TANK PROGRAM  
BUREAU OF LAND AND WASTE MANAGEMENT  
2600 Bull Street, Columbia, South Carolina 29201  
Telephone: 803-898-2544

MEMORANDUM

TO: Statelead Groundwater Sampling Contractor

FROM: Zachary Griffith

RE: Site Specific Work Plan Request

Facility Name: Steady Simmons Contractor CA# 64182  
Permit Number: 18856 PACE CA #: 64183  
County: Jasper RBCA CLASS: 2AB

List Monitoring Wells to be Sampled Purging Method Non-Bracketing Only  
Shallow MW-1R, MW-2, MW-5, MW-6, MW-7, MW-8, MW-9, MW-10, or SEE ATTACHED TABLE  
Deep DW-1, DW-2, or SEE ATTACHED TABLE  
Intermediate

Surface Water Points to be Sampled  
SW-1, SW-2, SW-3

WSW Points to be Sampled  
WSW-1, WSW-2, WSW-3, WSW-4, WSW-5, WSW-6, WSW-7, WSW-8, WSW-9

Sample Below Product NO

Additional Potentiometric Maps Reqeusted - See Below (Note: Shallow & Deep Included)

Isopleth Maps requested instead of CoC Map (Only for CoCs >RBSL or SSTL)

Other:

Total Groundwater Sample Points: 13

Analysis Being Requested: K. BTEXNM+Oxyg's+1,2 DCA+Eth(8260B), K7. EDB by EPA 8011

Total Water Supply Well Points: 9

Analysis Being Requested: K14. BTEXNM+1,2 DCA (524.2), K16. EDB (504.1)





Zach

August 26, 2021

Mr. Matt Wykel, Hydrogeologist  
Corrective Action & Field Support Section  
Underground Storage Tank Management Division  
Bureau of Land and Waste Management  
South Carolina Department of Health  
and Environmental Control  
2600 Bull Street  
Columbia, South Carolina 29201



RECEIVED  
AUG 30 2021  
UST DIVISION

Subject: Site-Specific Work Plan  
Steady Simmons  
Early Branch, South Carolina  
SCDHEC Site ID Number 18856  
MECI Project Number 21-7680  
Certified Site Rehabilitation Contractor UCC-0009

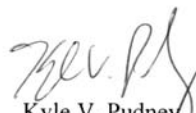
Dear Mr. Wykel,

Midlands Environmental Consultants Inc. (MECI) is pleased to submit the attached Site-Specific Work Plan for the referenced site.


On August 25, 2021, MECI personnel performed a site visit to the subject sites to evaluate site conditions, locate monitoring wells and identify potential problems for future sampling activities.

If you have any question or comments, please feel free to contact us at 803-808-2043.

Sincerely,  
**Midlands Environmental Consultants, Inc.**



Kyle V. Pudney  
Project Biologist



Jeff E. Coleman  
Senior Scientist



**Site-Specific Work Plan for Approved ACQAP  
Underground Storage Tank Management Division**

To: Mr. Zachary Griffith (SCDHEC Project Manager)  
 From: Jeff L. Coleman (Contractor Project Manager)  
 Contractor: Midlands Environmental Consultants, Inc. UST Contractor Certification Number: 009

Facility Name: Steady Simmons UST Permit #: 18856  
 Facility Address: 16661 Grays Highway, Early Branch, SC 29916  
 Responsible Party: Steady Simmons Phone: N/A  
 RP Address: P.O. Box 155H, Ridgeland, SC 29936  
 Property Owner (if different): Wayne Thompson  
 Property Owner Address: 1667 Grays Highway, Early Branch, SC 29116  
 Current Use of Property: Vacant Building/Residential Property

**Scope of Work** (Please check all that apply)  
 IGWA       Tier II       Groundwater Sampling       GAC  
 Tier I       Monitoring Well Installation       Other \_\_\_\_\_

**Analyses** (Please check all that apply)  
 Groundwater/Surface Water:  
 BTEXNMDCA (8260D)       Lead       BOD       Methane  
 Oxygenates (8260D)       8 RCRA Metals       Nitrate       Ethanol  
 EDB (8011)       TPH       Sulfate       Dissolved Iron  
 PAH (8270E)       pH       Other \_\_\_\_\_  
 Drinking Water Supply Wells:  
 BTEXNMDCA (524.2)       Mercury (200.8 245.1 or 245.2)       EDB (504.1)  
 Oxygenates & Ethanol (8260D)       RCRA Metals (200.8)  
 Soil:  
 BTEXNM       Lead       RCRA Metals       TPH-DRO (3550B/8015B)       Grain Size  
 PAH       Oil & Grease (9071)       TPH-GRO (5030B/8015B)       TOC  
 Air:  
 BTEXN

**Sample Collection** (Estimate the number of samples of each matrix that are expected to be collected.)  
 \_\_\_\_\_ Soil      9 Water Supply Wells      \_\_\_\_\_ Air      2 Field Blank  
10 Monitoring Wells      3 Surface Water      2 Duplicate      2 Trip Blank

**Field Screening Methodology**  
 Estimate number and total completed depth for each point, and include their proposed locations on the attached map.  
 # of shallow points proposed: \_\_\_\_\_ Estimated Footage: \_\_\_\_\_ feet per point  
 # of deep points proposed: \_\_\_\_\_ Estimated Footage: \_\_\_\_\_ feet per point  
 Field Screening Methodology: \_\_\_\_\_

**Permanent Monitoring Wells**  
 Estimate number and total completed depth for each well, and include their proposed locations on the attached map.  
 # of shallow wells: \_\_\_\_\_ Estimated Footage: \_\_\_\_\_ feet per point  
 # of deep wells: \_\_\_\_\_ Estimated Footage: \_\_\_\_\_ feet per point  
 # of recovery wells: \_\_\_\_\_ Estimated Footage: \_\_\_\_\_ feet per point  
 Comments, if warranted:  
 \_\_\_\_\_  
 \_\_\_\_\_

UST Permit #: 18856 Facility Name: Steady Simmons

**Implementation Schedule** (Number of calendar days from approval)  
 Field Work Start-Up: 8/26/2021 Field Work Completion: 9/26/2021  
 Report Submittal: 10/26/2021 # of Copies Provided to Property Owners: \_\_\_\_\_

**Aquifer Characterization**  
 Pump Test:  Slug Test:  (Check one and provide explanation below for choice)  
 \_\_\_\_\_  
 \_\_\_\_\_

**Investigation Derived Waste Disposal**  
 Soil: \_\_\_\_\_ Tons Purge Water: 60.0 Gallons  
 Drilling Fluids: \_\_\_\_\_ Gallons Free-Phase Product: \_\_\_\_\_ Gallons

**Additional Details For This Scope of Work**  
 For example, list wells to be sampled, wells to be abandoned/repared, well pads/bolts/caps to replace, details of AFVR event, etc.  
 -All monitoring wells to be sampled were located and found to be in good condition.  
 -Only wells which do not bracket the watertable will be purged prior to sample collection.  
 -MECI will attempt to sample 9 water supply wells and 3 surface water bodies during sampling activities.  
 -Samples will be analyzed for BTEXNM, DCA, Oxy's and EDB by appropriate methods.  
 \_\_\_\_\_  
 \_\_\_\_\_

**Compliance With Annual Contractor Quality Assurance Plan (ACQAP)**  
Yes Laboratory as indicated in ACQAP? (Yes/No) If no, indicate laboratory information below.  
 Name of Laboratory: \_\_\_\_\_  
 SCDHEC Certification Number: \_\_\_\_\_  
 Name of Laboratory Director: \_\_\_\_\_  
N/A Well Driller as indicated in ACQAP? (Yes/No) If no, indicate driller information below.  
 Name of Well Driller: \_\_\_\_\_  
 SCLLR Certification Number: \_\_\_\_\_  
None Other variations from ACQAP. Please describe below.  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

**Attachments**  
 1. Attach a copy of the relevant portion of the USGS topographic map showing the site location.  
 2. Prepare a site base map. This map must be accurately scaled, but does not need to be surveyed. The map must include the following:  
 North Arrow Proposed monitoring well locations  
 Location of property lines Legend with facility name and address, UST permit number, and bar scale  
 Location of buildings Streets or highways (indicate names and numbers)  
 Previous soil sampling locations Location of all present and former ASTs and USTs  
 Previous monitoring well locations Location of all potential receptors  
 Proposed soil boring locations  
 3. Assessment Component Cost Agreement, SCDHEC Form D-3664



**ASSESSMENT COMPONENT COST AGREEMENT  
SOUTH CAROLINA**

Department of Health and Environmental Control  
Underground Storage Tank Management Division  
State Underground Petroleum Environmental Response Bank Account  
**CONTRACT PO # 4600830568**

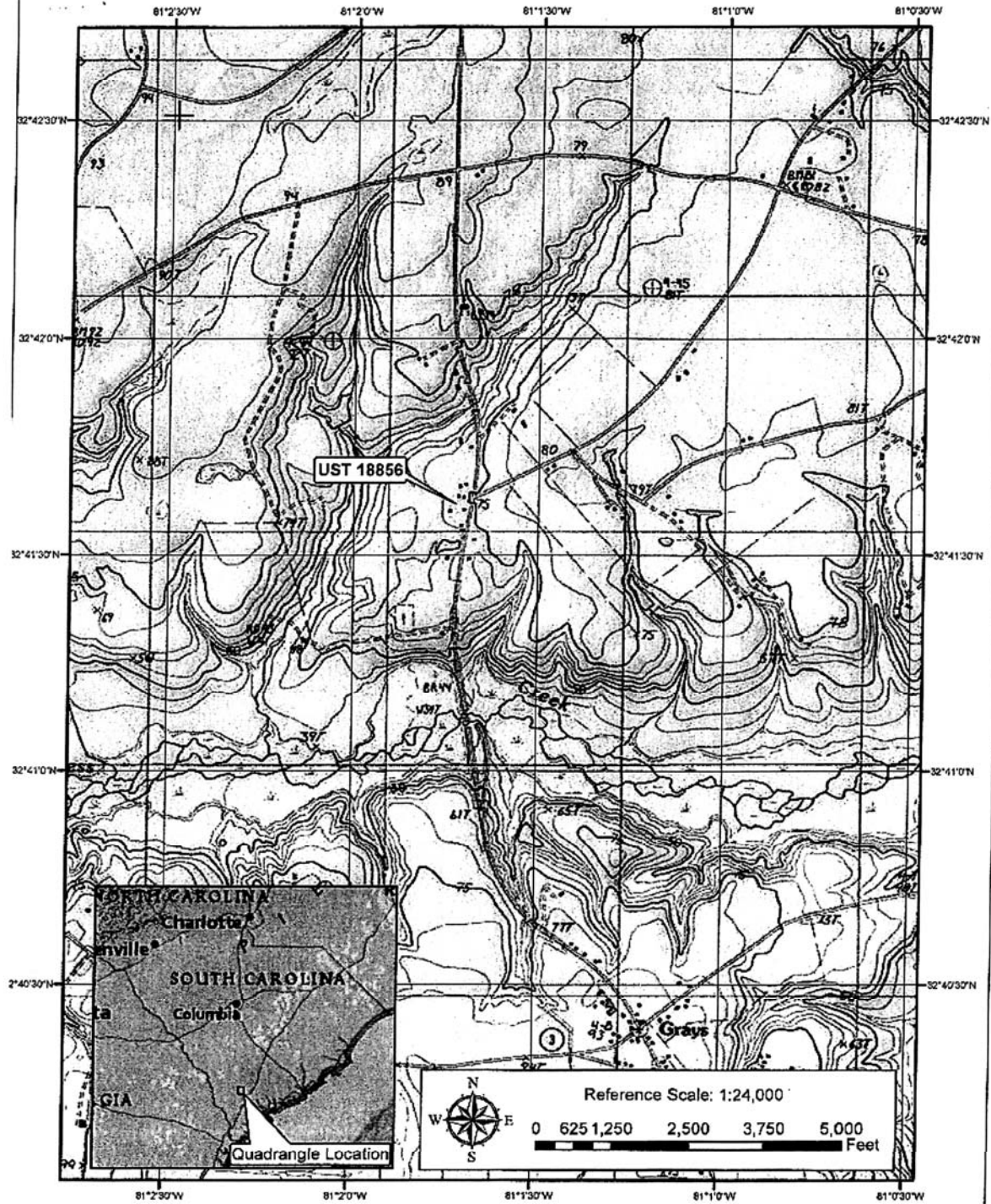
Facility Name: Steady Simmons

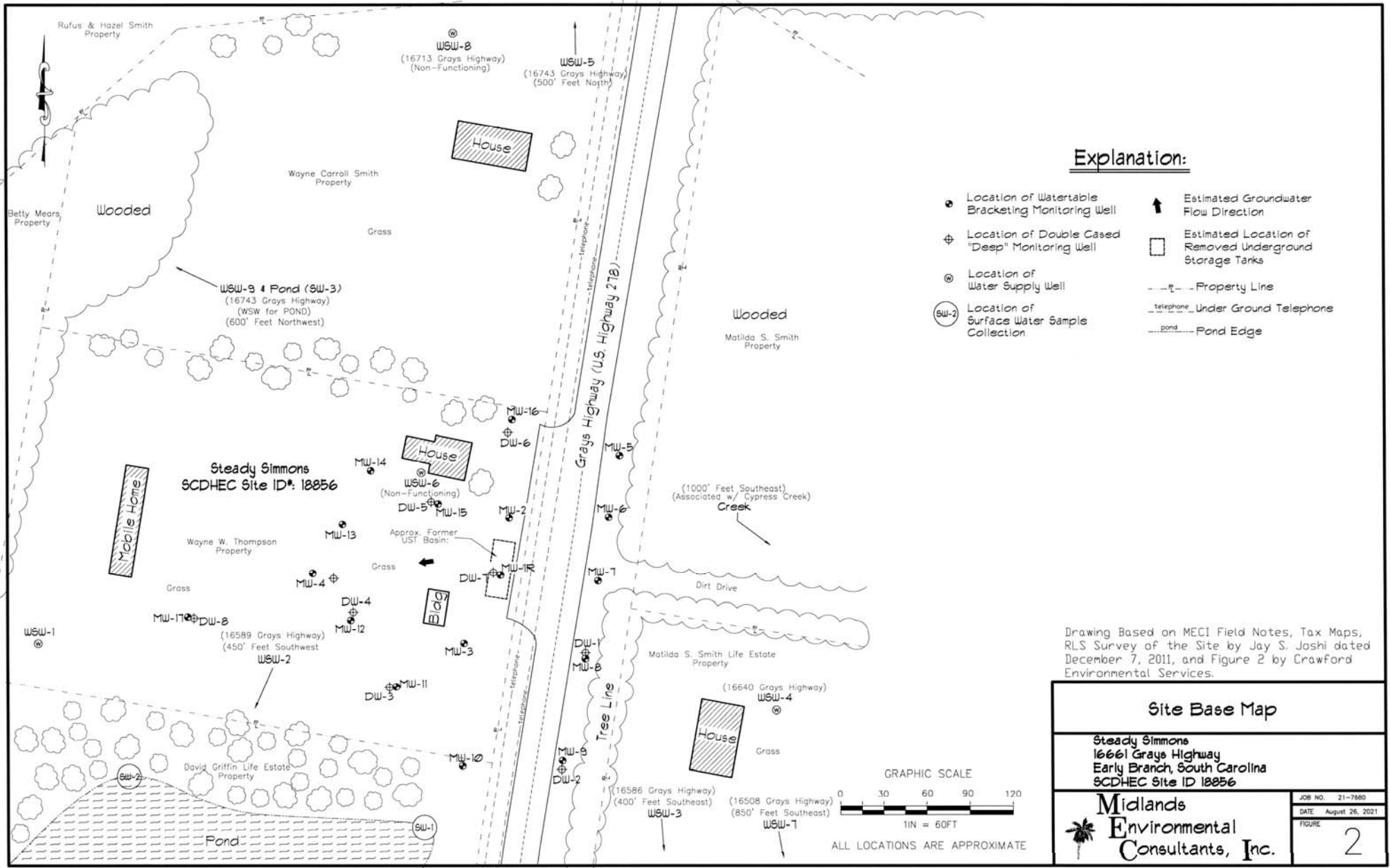
UST Permit #: 18856

Cost Agreement #: 64182

ITEM	QUANTITY	UNIT	UNIT PRICE		TOTAL
<b>A. Plan Preparation</b>					
1. Site Specific Work Plan	1	each	\$425.00		\$425.00
2. Tax Map		each	\$50.00		\$0.00
<b>B. Receptor Survey</b>					
		each	\$50.00		\$0.00
<b>D. Mob/Demob</b>					
2. Personnel	1	each	\$610.00		\$610.00
<b>J. Groundwater Sample Collection / Gauge Depth to Water or Product (Each)</b>					
1. Groundwater Purge	2	per well	\$10.00		\$20.00
2. Air or Vapors		per sample	\$1.00		\$0.00
3. Water Supply Sample	9	per sample	\$40.00		\$360.00
4. Groundwater No Purge/Surface Water	11	per sample	\$8.00		\$88.00
R-1. HydraSleeve		per sample	\$23.00		\$0.00
5. Gauge Well only		per data point	\$1.00		\$0.00
6. Sample Below Product		per well	\$1.80		\$0.00
7. Passive Diffusion Bag		per well	\$25.00		\$0.00
9. Groundwater (low flow purge)		per well	\$25.00		\$0.00
10. Equipment Blank		per day	\$10.00		\$0.00
<b>Q. Disposal (gallons or tons)</b>					
1. Wastewater	60	per gallon	\$0.33		\$19.80
2. Free Product		per gallon	\$0.05		\$0.00
<b>R. Miscellaneous</b>					
2. Additional Potentiometric Map		each above required two	\$10.00		\$0.00
3. Isoleth Map		each above required one	\$50.00		\$0.00
4. Data Table		per data set	\$100.00		\$0.00
5. Redraw/Digitize Site Map		each	\$150.00		\$0.00
6. Replace Well Lid		each	\$10.00		\$0.00
<b>Y. Well Repair</b>					
1. Additional Copies of Report Delivered		per copy	\$10.00		\$0.00
5. Replace well cover bolts		each	\$6.00		\$0.00
6. Replace locking well cap & lock		each	\$10.00		\$0.00
10. Replace missing/illegible well ID plate		each	\$10.00		\$0.00
<b>Subtotal</b>					<b>\$1,522.80</b>
<b>S. Report Preparation/Project Coordination</b>			Percent of Subtotal	0%	
<b>TOTAL</b>					<b>\$1,522.80</b>

# Steady Simmons UST Permit 18856





Rufus & Hazel Smith Property

WSW-8  
(16713 Grays Highway)  
(Non-Functioning)

WSW-5  
(16743 Grays Highway)  
(500' Feet North)

Wayne Carroll Smith Property

Betty Mears Property

Wooded

WSW-9 & Pond (SW-3)  
(16743 Grays Highway)  
(WSW for POND)  
(600' Feet Northwest)

Grass

House

Grays Highway (U.S. Highway 278)

Wooded

Matilda S. Smith Property

Steady Simmons  
SCDHEC Site ID: 18856

MW-14

WSW-6  
(Non-Functioning)

DW-5

Wayne W. Thompson Property

MW-13

Approx. Former UST Basin:

Grass

MW-4

DW-4

MW-12

Blag

MW-3

MW-11

DW-3

MW-10

WSW-1

MW-17 & DW-8  
(16589 Grays Highway)  
(450' Feet Southwest)

WSW-2  
(16589 Grays Highway)  
(450' Feet Southwest)

David Griffin Life Estate Property

Pond

SW-1

Telephone

Telephone

Telephone

Telephone

Telephone

Telephone

Telephone

Telephone

Telephone

Telephone

Telephone

Telephone

(1000' Feet Southeast)  
(Associated w/ Cypress Creek)

Creek

Dirt Drive

Matilda S. Smith Life Estate Property

(16640 Grays Highway)

WSW-4

Grass

House

(16586 Grays Highway)  
(400' Feet Southeast)

WSW-3

(16508 Grays Highway)  
(850' Feet Southeast)

WSW-7

Tree Line

Tree Line

Tree Line

Tree Line

Tree Line

Tree Line

Tree Line

Tree Line

Tree Line

Tree Line



SEP 20 2021



MR BRYAN SHANE PG  
MIDLANDS ENVIRONMENTAL CONSULTANTS  
PO BOX 854  
LEXINGTON SC 29071

Re: Notice to Proceed Site-Specific Work Plan (SSWP) Approval  
Groundwater Sampling Contract  
Solicitation #IFB-5400021335, PO #4600830568  
Steady Simmons, 16661 Grays Highway, Early Branch, SC  
UST Permit #18856; MECI CA #64182; Pace CA #64183  
Jasper County

Dear Mr. Shane:

In accordance with bid solicitation #IFB-5400021335, the SSWP has been reviewed and approved. A status report of the project should be provided on a weekly basis. If any quality assurance problems arise, you must contact me within 24 hours by phone or email.

Please coordinate access to the facility with the property owner. **Sampling should be conducted within 30 calendar days from the date of this letter. If the final report is not submitted within 60 days of the date of this correspondence, a late fee may be imposed.** The final report is to be submitted to the contract manager.

If you have any site-specific questions, please contact me by email @dhec.sc.gov or phone (803) 898-0500. If you have any contract specific questions, please contact Robert Dunn by email dunnra@dhec.sc.gov or phone (803) 898-0671.

Sincerely,

Arthur Brown, Hydrogeologist  
Corrective Action & Field Support Section  
UST Management Division  
Bureau of Land & Waste Management

Enc: Approved Cost Agreement (both CAs)

Cc: Ms. Lindsey Wooten, Pace Analytical Services, 9800 Kinney Ave, STE 100, Huntersville, NC, 28078 (w/ CA)  
Technical File (w/ Enc)

**Approved Cost Agreement 64183**

Facility: 18856 STEADY SIMMONS

BROWNAJ

PO Number:

<u>Task / Description</u>	<u>Categories</u>	<u>Item Description</u>	<u>Qty / Pct</u>	<u>Unit Price</u>	<u>Amount</u>
K ANALYSES					
	DW DRINKING WATER	14 BTEXNM+1,2 DCA (524.2) WSW	12.0000	\$42.000	504.00
		15 OXYGENATES & ETHANOL 8260B WSW	12.0000	\$20.000	240.00
		16 EDB (504.1) WSW	11.0000	\$22.000	242.00
	GW GROUNDWATER	1 BTEXNM+OXYGS+1,2-DCA+ETH-8260B	16.0000	\$26.000	416.00
		7 EDB BY EPA 8011	15.0000	\$22.000	330.00
<b>Total Amount</b>					<b>1,732.00</b>



**Approved Cost Agreement 64182**

Facility: 18856 STEADY SIMMONS

BROWNAJ

PO Number:

<u>Task / Description</u>	<u>Categories</u>	<u>Item Description</u>	<u>Qty / Pct</u>	<u>Unit Price</u>	<u>Amount</u>
A PLAN PREPARATION					
		1 SITE SPECIFIC WORK PLAN	1.0000	\$425.000	425.00
D MOB/DEMOB					
		2 PERSONNEL	1.0000	\$610.000	610.00
J SAMPLE COLLECTION					
		1 GROUND WATER PURGE	2.0000	\$10.000	20.00
		3 WATER SUPPLY SAMPLE/ DUPLICATE	9.0000	\$40.000	360.00
		4 GROUNDWATER NO-PURGE/DUPL/GRAB	11.0000	\$8.000	88.00
Q DISPOSAL					
		1 WASTEWATER	60.0000	\$0.330	19.80
<b>Total Amount</b>					1,522.80

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# MONITORING REPORT

Steady Simmons  
16661 Grays Highway  
Early Branch, South Carolina  
Jasper County  
UST Permit# 18856; CA# 64182  
Solicitation# IFB-5400021335; PO# 4600830568

*Prepared By:*

 Midlands  
Environmental  
Consultants, Inc.  
231 Dooley Road, Lexington, SC 29073  
(803) 808-2043 fax: 808-2048

October 19, 2021

MECI Project No. 21-7680

---



October 19, 2021

Mr. Matt Wykel, Hydrogeologist  
Corrective Action Section  
Underground Storage Tank Program  
Bureau of Land and Waste Management  
South Carolina Department of Health  
and Environmental Control  
2600 Bull Street  
Columbia, South Carolina 29201

Subject: Report of Groundwater Sampling  
Steady Simmons  
16661 Grays Highway  
Early Branch, South Carolina  
Orangeburg County  
UST Permit# 18856; CA# 64182  
MECI Project Number 21-7680  
Certified Site Rehabilitation Contractor UCC-0009

Dear Mr. Wykel,

Midlands Environmental Consultants Inc. (MECI) is pleased to submit the attached Report of Groundwater Sampling for the referenced site. This report describes site activities conducted at the site in general accordance with South Carolina Department of Health and Environmental Control's (SCDHEC) Quality Assurance Program Plan for the Underground Storage Tank Management Division (QAPP).

Midlands Environmental appreciates the opportunity to offer our professional environmental services to you on this project. Please feel free to contact us at 803-808-2043 if you have any immediate questions or comments.

Sincerely,  
**Midlands Environmental Consultants, Inc.**

  
Jeff L. Coleman  
Senior Scientist



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**1.0 INTRODUCTION**

**i. Facility Information**

Name: Steady Simmons  
 Address: 16661 Grays Highway, Early Branch, SC 29116  
 Telephone #: N/A

**ii. Owner/Operator Information**

Name: Steady Simmons  
 Address: P.O. Box 155H, Ridgeland, SC 29936  
 Telephone #: N/A

**iii. Property Owner Information**

Name: Wayne Thompson  
 Tax Map #: Jasper County Tax Map#: 052-00-05-027  
 Address: 16657 Grays Highway, Early Branch, SC 29916  
 Telephone #: 803-398-7718

**iv. Contractor Information**

Name: Midlands Environmental Consultants, Inc.  
 Certification #: 9  
 Address: P. O. Box 854, Lexington, SC 29071  
 Telephone #: (803) 808-2043

**v. Facility History**

<b>Release Date:</b>	9/9/2002		
<b>Estimated Quantity of Release:</b>	Unknown		
<b>Other Releases at Facility:</b>	N/A		
<b>Release Ranking:</b>	2AB		
<b>Current Site Usage:</b>	Residence		
<b>Tank #</b>	<b>Capacity/Product</b>	<b>In Use/Abandoned</b>	<b>Tank Status</b>
1	1,000 Gal. Gasoline	Abandoned	Removed (7/16/2002)
2	550 Gal. Gasoline	Abandoned	Removed (7/16/2002)

**2.0 RECEPTOR SURVEY & SITE DATA**

**i. Known Potential Receptors**

Receptor ID#	Notes
SW-1	Collected from Pond (32.692095, -81.028624)
SW-2	Collected from Pond (32.642192, -81.029035)
SW-3	Collected from Pond (32.93831, -81.030328)
WSW-1	White Trailer on Onsite, Denied Access to Sample
WSW-2	16589 Grays Highway, Denied Access to Sample
WSW-3	Sample Taken From Spigot on Well House, 16586 Grays Highway (32.691472, -81.027875)
WSW-4	16640 Grays Highway, Denied Access to Sample
WSW-5	Sample collected from Spigot on WSW (32.693831, -81.030328)
WSW-6	Not Operational, Onsite
WSW-7	Well not operational; House no longer at property; Well possibly abandoned

WSW-8	Not Operational/No Resident, 16713 Gray Highway
WSW-9	Sample collected from Spigot on WSW (32.693878, -81.028554)

**ii. Receptor Survey Results**

A receptor survey was not requested as part of the approved cost agreement.

**iii. Site/Adjacent Land Usage (Residential, Commercial, Agricultural, Industrial, etc.)**

Site	Residential
North	Residential
South	Residential
East	Residential
West	Wooded
Permit #'s of UST Sites within 1,000' feet of site	N/A

**3.0 SAMPLING AND CHEMICAL ANALYSES**

On October 6, 2021, MECI personnel collected groundwater samples from ten (10) monitoring wells, three (3) surface water locations and three (3) water supply wells at the subject site. Water supply wells WSW-1, WSW-2, WSW-4, WSW-5, WSW-6, WSW-7 and WSW-8 were unable to be sampled (See Table 2). Based on a request from SCDHEC, only monitoring wells which did not bracket the watertable were to be purged prior to sample collection. Five (5) monitoring wells were purged prior to sample collection.

MECI personnel utilized an electronic water level indicator for water level measurements and an oil/water interface probe for free phase petroleum product level measurements. Where applicable, purging was completed by bailing at least five well volumes of water from the well, until pH, conductivity, dissolved oxygen and turbidity stabilized, or all water was evacuated from the well, whichever occurred first. Sampling/purging was completed utilizing a prepackaged, clear, disposable polyethylene bailer and nylon rope. A new set of nitrile gloves were worn at each monitoring well, and at all time samples were handled. Field measurements of pH, conductivity, dissolved oxygen, and water temperature were obtained before well sampling process. MECI utilized a YSI Pro20 meter for DO (mg/L) and temperature readings (°C), YSI Pro1030 meter for pH and conductivity (uS) readings and a MicroTPI turbidimeter for turbidity readings (NTU). The attached Field Data Information Sheets presents the results of the field measurements obtained. The wells were sampled in accordance with the most recent revision of SCDHEC's Quality Assurance Program Plan for the Underground Storage Tank Management Division and the most recent revision MECI's Standard Operating Procedures.

Groundwater samples obtained were sent to Pace Analytical Services, Inc. of Huntersville, NC (SCDHEC Laboratory Certification #99006001) for analysis.

The following sampling matrix contains well development and requested analyses for each well:

Sample ID	Purge	No Purge	Gauge Only	Low-Flow Sampling	Not Sampled	Not Located	BTEX, Naphthalene, MTBE, 1,2 DCA (EPA Method 8260D)	8 Oxygenates (EPA Method 8260D)	EDB (EPA Method 8011)	PAHs (EPA Method 8270E)	Total Lead (EPA Method 6010)	BTEX, Naphthalene, MTBE, 1,2 DCA (EPA Method 5242)	EDB (EPA Method 5041)
Analyte Sampled													
MW-1R	X						X	X	X				
Notes: BTEX = Benzene, Toluene, Ethylbenzene, & Total Xylenes MTBE=Methyl tertiary butyl ether 1,2 DCA = 1,2 Dichloroethane EDB = Ethylene Dibromide													

Sample ID	Purge	No Purge	Gauge Only	Low-Flow Sampling	Not Sampled	Not Located	BTEX, Naphthalene, MTBE, 1,2 DCA (EPA Method 8260D)	8 Oxygenates (EPA Method 8260D)	EDB (EPA Method 8011)	PAHs (EPA Method 8270E)	Total Lead (EPA Method 6010)	BTEX, Naphthalene, MTBE, 1,2 DCA (EPA Method 524.2)	EDB (EPA Method 504.1)
Analyte Sampled													
MW-2	X						X	X	X				
MW-5		X					X	X	X				
MW-6		X					X	X	X				
MW-7		X					X	X	X				
MW-8		X					X	X	X				
MW-9		X					X	X	X				
MW-10	X						X	X	X				
DW-1	X						X	X	X				
DW-2	X						X	X	X				
SW-1		X					X	X	X				
SW-2		X					X	X	X				
SW-3		X					X	X	X				
DUP-1							X	X	X				
Field Blank							X	X	X				
Trip Blank							X	X					
WSW-1					X								
WSW-2					X								
WSW-3								X				X	X
WSW-4					X								
WSW-5								X				X	X
WSW-6					X								
WSW-7					X								
WSW-8					X								
WSW-9								X				X	X
WSW-DUP								X				X	X
Field Blank								X				X	X
Trip Blank								X				X	

Notes: BTEX = Benzene, Toluene, Ethylbenzene, & Total Xylenes  
 MTBE=Methyl tertiary butyl ether  
 1,2 DCA = 1,2 Dichloroethane  
 EDB = Ethylene Dibromide

Purge water produced by the purging process was treated on-site utilizing a granular activated carbon unit. A total of 64.50 gallons of purge water was disposed of in this manner. A disposal manifest for the referenced purge water is attached in Appendix C and the required Post-GAC laboratory results in presented in Appendix B.

#### 4.0 RESULTS AND DISCUSSION

- The apparent groundwater flow from the release is to the west.
- Free phase petroleum product was not detected in any of the monitoring wells during sampling activities. The analytical results indicate petroleum impact to the surficial aquifer with the highest dissolved concentrations being detected in MW-2. Of the sixteen sampling locations analyzed, one monitoring well (MW-2) detected petroleum constituents above Risked Based Screening Levels (RBSL's).
- Petroleum constituents detected above the established RBSL include:



<i>Compound</i>	<i>RBSL/SCAL (ug/l)</i>	<i>Wells Above RBSL</i>
Product	0.01*	N/A
Benzene	5	MW-2
Toluene	1,000	MW-2
Ethylbenzene	700	N/A
Total Xylenes	10,000	N/A
Naphthalene	25	MW-2
MTBE	40	N/A
1,2 DCA	5	N/A
EDB	0.05	N/A
TAA	240	N/A
TAME	128	N/A
ETBA	NE	RBSL Not Established
TBA	1,400	N/A
TBF	NE	RBSL Not Established
DIPE	150	N/A
Ethanol	10,000	N/A
ETBE	47	N/A

- In order to assess precision, field duplicate samples were collected and analyzed along with the reviewed batch samples. The duplicated samples were analyzed for the same parameters as the associated parent samples. Precision is determined by calculating the Relative Percent Differences (RPD) between each pair of samples. The RPD control limit for the groundwater samples is 20%. Duplicate samples were collected from parent sample MW-1R and WSW-3. The precision for the target analytes were met for these sample pairs and the analytical results detected the same compounds at similar concentrations. Furthermore, field blanks and trip blanks were collected and submitted during the groundwater sampling activities. No detectable concentrations of the requested method constituents were reported in either of the field or trip blanks.

#### 5.0 QUALIFICATIONS OF REPORT

The activities and evaluative approaches used in this assessment are consistent with those normally employed in hydrogeological assessment and waste management projects of this type. Our evaluation of site conditions has been based on our understanding of the site, project information provided to us, and data obtained in our exploration. Contents of this report are intended for the sole use of MECI and SCDHEC under mutually agreed upon terms and conditions. If other parties wish to rely on this report, please contact MECI prior to their use of this information so that a mutual understanding and agreement of the terms and conditions of our services can be established.

-oOo-

## TABLES

Table #1  
 Summary of Analytical Results - Water Samples  
 18856/64183 STEADY SIMMONS  
 Facility ID#18856

Analytical Method		EPA 8011	EPA 8260D																
Sample ID	Constituent of Concern	1,2-Dibromoethane (EDB)	1,2-Dichloroethane	3,3-Dimethyl-1-Butanol	Benzene	Diisopropyl ether	Ethanol	Ethyl-tert-butyl ether	Ethylbenzene	Methyl-tert-butyl ether	Naphthalene	Toluene	Xylene (Total)	m&p-Xylene	o-Xylene	tert-Amyl Alcohol	tert-Amylmethyl ether	tert-Butyl Alcohol	tert-Butyl Formate
		Date Collected (mm/dd/yy)	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
DUPLICATE	10/06/2021	<0.0081	<0.32	<51.9	<0.34	<0.31	<72.2	<3.2	<0.30	<0.42	<0.64	<0.48	<0.34	<0.71	<0.34	<36.4	<2.7	<26.8	<29.4
DW-1	10/06/2021	<0.0081	<2.1	<53.9	<1.7	<3.5	<144	<8.5	<1.8	<3.1	<2.1	<2.0	<5.0	<4.1	<2.0	<65.6	<3.0	<91.0	<24.1
DW-2	10/06/2021	<0.0081	<2.1	<53.9	<1.7	<3.5	<144	<8.5	<1.8	<3.1	<2.1	<2.0	<5.0	<4.1	<2.0	<65.6	<3.0	<91.0	<24.1
FIELD BLANK	10/06/2021	<0.0080	<2.1	<53.9	<1.7	<3.5	<144	<8.5	<1.8	<3.1	<2.1	<2.0	<5.0	<4.1	<2.0	<65.6	<3.0	<91.0	<24.1
MW-10	10/06/2021	<0.0080	<2.1	<53.9	<1.7	<3.5	<144	<8.5	<1.8	<3.1	<2.1	<2.0	<5.0	<4.1	<2.0	<65.6	<3.0	<91.0	<24.1
MW-1R	10/06/2021	<0.0082	<2.1	<53.9	<1.7	<3.5	<144	<8.5	<1.8	<3.1	<2.1	<2.0	<5.0	<4.1	<2.0	<65.6	<3.0	<91.0	<24.1
MW-2	10/06/2021	<b>0.30</b>	<10.3	<270	<b>131</b>	<17.4	<720	<42.3	619	<15.5	<b>285</b>	<b>1170</b>	3310	1950	1350	<328	<15.2	<455	<120
MW-5	10/06/2021	<0.0080	<2.1	<53.9	<1.7	<3.5	<144	<8.5	<1.8	<3.1	<2.1	<2.0	<5.0	<4.1	<2.0	<65.6	<3.0	<91.0	<24.1
MW-6	10/06/2021	<0.0081	<2.1	<53.9	<1.7	<3.5	<144	<8.5	<1.8	<3.1	<2.1	<2.0	<5.0	<4.1	<2.0	<65.6	<3.0	<91.0	<24.1
MW-7	10/06/2021	<0.0081	<2.1	<53.9	<1.7	<3.5	<144	<8.5	<1.8	<3.1	<2.1	<2.0	<5.0	<4.1	<2.0	<65.6	<3.0	<91.0	<24.1
MW-8	10/06/2021	<0.0079	<2.1	<53.9	<1.7	<3.5	<144	<8.5	<1.8	<3.1	<2.1	<2.0	<5.0	<4.1	<2.0	<65.6	<3.0	<91.0	<24.1
MW-9	10/06/2021	<0.0079	<2.1	<53.9	<1.7	<3.5	<144	<8.5	<1.8	<3.1	<2.1	<2.0	<5.0	<4.1	<2.0	<65.6	<3.0	<91.0	<24.1
SW-1	10/06/2021	<0.0080	<0.32	<51.9	<0.34	<0.31	<72.2	<3.2	<0.30	<0.42	<0.64	<0.48	<0.34	<0.71	<0.34	<36.4	<2.7	<26.8	<29.4
SW-2	10/06/2021	<0.0079	<0.32	<51.9	<0.34	<0.31	<72.2	<3.2	<0.30	<0.42	<0.64	<0.48	<0.34	<0.71	<0.34	<36.4	<2.7	<26.8	<29.4
SW-3	10/06/2021	<0.0079	<0.32	<51.9	<0.34	<0.31	<72.2	<3.2	<0.30	<0.42	<0.64	<0.48	<0.34	<0.71	<0.34	<36.4	<2.7	<26.8	<29.4
TRIP BLANK	10/06/2021	N/A	<2.1	<53.9	<1.7	<3.5	<144	<8.5	<1.8	<3.1	<2.1	<2.0	<5.0	<4.1	<2.0	<65.6	<3.0	<91.0	<24.1
South Carolina RBSL for Groundwater		0.05	5	N/A	5	150	10000	47	700	40	25	1000	10000	N/A	N/A	240	128	1400	N/A
South Carolina Action Levels for Groundwater		N/A	N/A	N/A	N/A	150	10000	47	N/A	N/A	N/A	N/A	N/A	N/A	N/A	240	128	1400	N/A

NOTES:

ND = Not Detected

ft. BGS = feet below ground surface

mg/L = milligrams per liter

ug/L = micrograms per liter

**Bold data above the RBSL (Risk Based Screening Level)**

Table #1A  
 Summary of Analytical Results - Water Samples  
 18856/64183 STEADY SIMMONS WSW  
 Facility ID#18856

Analytical Method		EPA 504.1	EPA 524.2									EPA 8260D							
Sample ID	Constituent of Concern	1,2-Dibromoethane (EDB)	1,2-Dichloroethane	Benzene	Ethylbenzene	Methyl-tert-butyl ether	Naphthalene	Toluene	Xylene (Total)	m&p-Xylene	o-Xylene	3,3-Dimethyl-1-Butanol	Diisopropyl ether	Ethanol	Ethyl-tert-butyl ether	tert-Amyl Alcohol	tert-Amylmethyl ether	tert-Butyl Alcohol	tert-Butyl Formate
	Date Collected (mm/dd/yy)	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
WSW-3	10/06/2021	<0.0038	<0.16	<0.21	<0.22	<0.14	<0.35	<0.20	<0.22	<0.39	<0.22	<51.9	<0.31	<72.2	<3.2	<36.4	<2.7	<26.8	<29.4
WSW-5	10/06/2021	<0.0036	<0.16	<0.21	<0.22	<0.14	<0.35	<0.20	<0.22	<0.39	<0.22	<51.9	<0.31	<72.2	<3.2	<36.4	<2.7	<26.8	<29.4
WSW-9	10/06/2021	<0.0038	<0.16	<0.21	<0.22	<0.14	<0.35	<0.20	<0.22	<0.39	<0.22	<51.9	<0.31	<72.2	<3.2	<36.4	<2.7	<26.8	<29.4
WSW-DUPLICATE	10/06/2021	<0.0037	<0.16	<0.21	<0.22	<0.14	<0.35	<0.20	<0.22	<0.39	<0.22	<51.9	<0.31	<72.2	<3.2	<36.4	<2.7	<26.8	<29.4
WSW-FB	10/06/2021	<0.0038	<0.16	<0.21	<0.22	<0.14	<0.35	<0.20	<0.22	<0.39	<0.22	<51.9	<0.31	<72.2	<3.2	<36.4	<2.7	<26.8	<29.4
WSW-TB	10/06/2021	N/A	<0.16	<0.21	<0.22	<0.14	<0.35	0.23 J	<0.22	<0.39	<0.22	<51.9	<0.31	<72.2	<3.2	<36.4	<2.7	<26.8	<29.4
South Carolina RBSL for Groundwater		0.05	5	5	700	40	25	1000	10000	N/A	N/A	N/A	150	10000	47	240	128	1400	N/A
South Carolina Action Levels for Groundwater		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	150	10000	47	240	128	1400	N/A

NOTES:

ND = Not Detected

ft. BGS = feet below ground surface

mg/L = milligrams per liter

ug/L = micrograms per liter

**Bold data above the RBSL (Risk Based Screening Level)**

**TABLE 2**  
**Site Activity Summary**



UST Permit #: 18856  
 Facility Name: Steady Simmons  
 County: Jasper  
 Field Personnel: M. Funderburk, C. Hansen

Sample ID	Sampled?	Date	Time	Screened Interval	Depth to Product (ft)	Depth to Water (ft)	Product Thickness (ft)	TOC Elevation	Groundwater Elevation	Initial DO (mg/l)	# Gals. Purged	Comments
MW-1R	Y	10/6/21	12:30	7-17	***	4.01	***	69.69	65.68	3.64	11.00	No Odor
MW-2	Y	10/6/21	12:47	7-17	***	5.28	***	70.10	64.82	1.99	10.00	Slight Odor
MW-3	N	10/6/21	ABN.	7-17	***	ABN.	***	68.59	ABN.	ABN.	0.00	ABN. = Well Abandoned
MW-4	N	10/6/21	ABN.	7-17	***	ABN.	***	67.95	ABN.	ABN.	0.00	ABN. = Well Abandoned
MW-5	Y	10/6/21	12:01	5-15	***	6.52	***	71.78	65.26	3.63	0.00	No Odor
MW-6	Y	10/6/21	11:52	5-15	***	6.41	***	71.47	65.06	3.43	0.00	No Odor
MW-7	Y	10/6/21	11:45	5-15	***	6.72	***	71.27	64.55	3.04	0.00	No Odor
MW-8	Y	10/6/21	11:06	5-15	***	6.19	***	70.90	64.71	2.89	0.00	No Odor
MW-9	Y	10/6/21	11:16	5-15	***	5.09	***	70.70	65.61	3.51	0.00	No Odor
MW-10	Y	10/6/21	11:37	5-15	***	2.21	***	66.65	64.44	3.27	11.00	Organic Odor
MW-11	N	10/6/21	ABN.	5-15	***	ABN.	***	67.16	ABN.	ABN.	0.00	ABN. = Well Abandoned
MW-12	N	10/6/21	ABN.	5-15	***	ABN.	***	67.18	ABN.	ABN.	0.00	ABN. = Well Abandoned
MW-13	N	10/6/21	ABN.	5-15	***	ABN.	***	68.50	ABN.	ABN.	0.00	ABN. = Well Abandoned
MW-14	N	10/6/21	ABN.	5-15	***	ABN.	***	70.14	ABN.	ABN.	0.00	ABN. = Well Abandoned
MW-15	N	10/6/21	ABN.	10-20	***	ABN.	***	70.01	ABN.	ABN.	0.00	ABN. = Well Abandoned
											32.00	<b>TOTAL GALLONS PURGED</b>

**TABLE 2**  
**Site Activity Summary**



UST Permit #: 18856  
 Facility Name: Steady Simmons  
 County: Jasper  
 Field Personnel: M. Funderburk, C. Hansen

Sample ID	Sampled?	Date	Time	Screened Interval	Depth to Product (ft)	Depth to Water (ft)	Product Thickness (ft)	TOC Elevation	Groundwater Elevation	Initial DO (mg/l)	# Gals. Purged	Comments
MW-16	N	10/6/21	ABN.	10-20	***	ABN.	***	71.65	ABN.	ABN.	0.00	ABN. = Well Abandoned
MW-17	N	10/6/21	ABN.	4-14	***	ABN.	***	68.16	ABN.	ABN.	0.00	ABN. = Well Abandoned
DW-1	Y	10/6/21	14:01	35-40	***	6.61	***	70.95	64.34	3.55	16.50	No Odor
DW-2	Y	10/6/21	13:39	35-40	***	7.42	***	70.89	63.47	4.27	16.00	No Odor
DW-3	N	10/6/21	ABN.	35-40	***	ABN.	***	67.20	ABN.	ABN.	0.00	ABN. = Well Abandoned
DW-4	N	10/6/21	ABN.	33-38	***	ABN.	***	67.51	ABN.	ABN.	0.00	ABN. = Well Abandoned
DW-5	N	10/6/21	ABN.	33-38	***	ABN.	***	70.02	ABN.	ABN.	0.00	ABN. = Well Abandoned
DW-6	N	10/6/21	ABN.	31-36	***	ABN.	***	71.41	ABN.	ABN.	0.00	ABN. = Well Abandoned
DW-7	N	10/6/21	ABN.	31-36	***	ABN.	***	69.82	ABN.	ABN.	0.00	ABN. = Well Abandoned
DW-8	N	10/6/21	ABN.	35-40	***	ABN.	***	67.83	ABN.	ABN.	0.00	ABN. = Well Abandoned
SW-1	Y	10/6/21	13:00	***	***	***	***	***	***	***	***	Collected from Pond (32.692095,-81.028624)
SW-2	Y	10/6/21	13:06	***	***	***	***	***	***	***	***	Collected from Pond (32.642192,-81.029035)
SW-3	N	10/6/21	13:24	***	***	***	***	***	***	***	***	Collected from Pond (32.93831,-81.030328)
DUP-1	Y	10/6/21	12:30	***	***	***	***	***	***	***	***	Duplicate of MW-1R
Field Blank	Y	10/6/21	14:03	***	***	***	***	***	***	***	***	Field Blank
											32.50	<b>TOTAL GALLONS PURGED</b>

**TABLE 2**  
**Site Activity Summary**



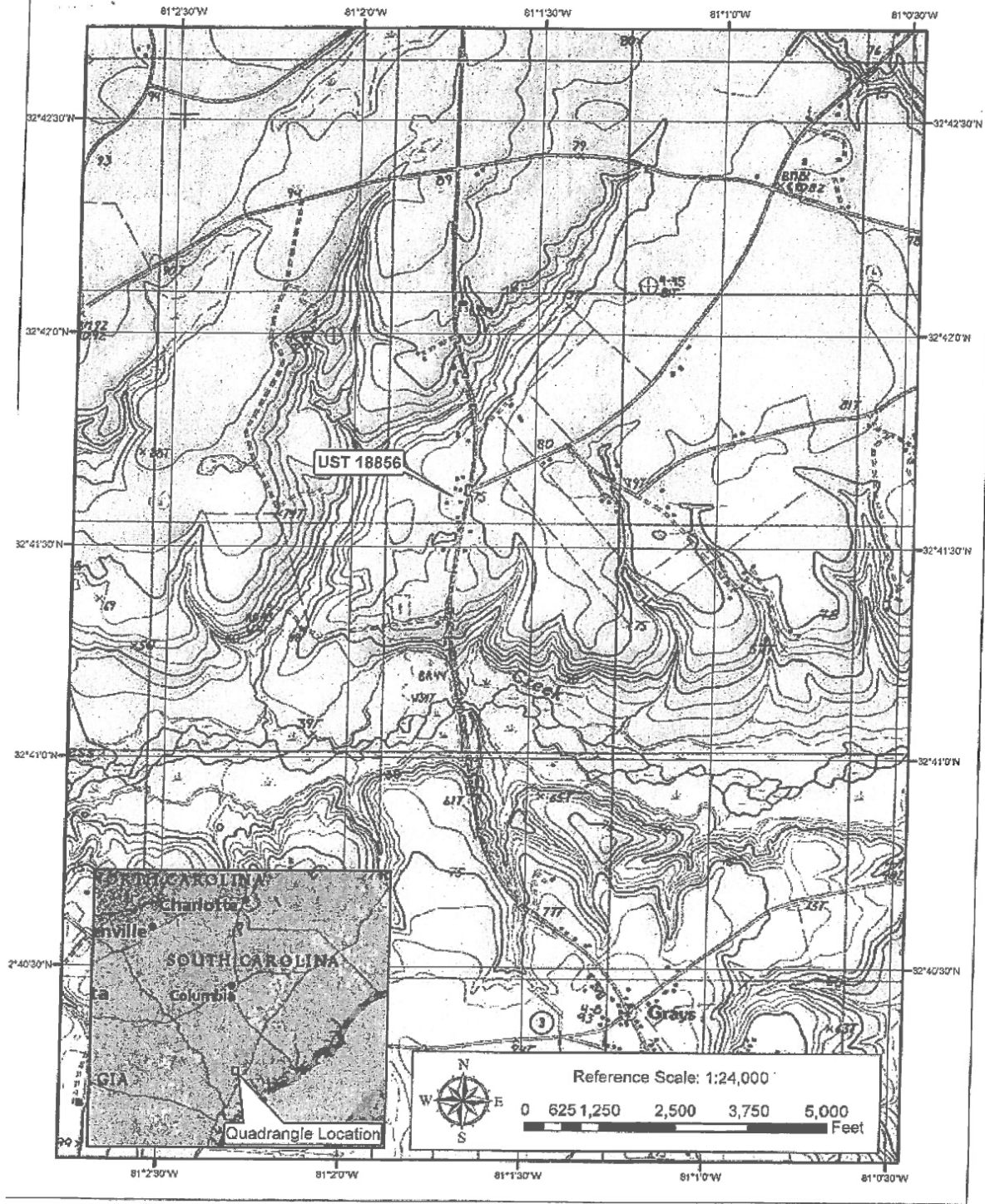
UST Permit #: 18856  
 Facility Name: Steady Simmons  
 County: Jasper  
 Field Personnel: M. Funderburk, C. Hansen

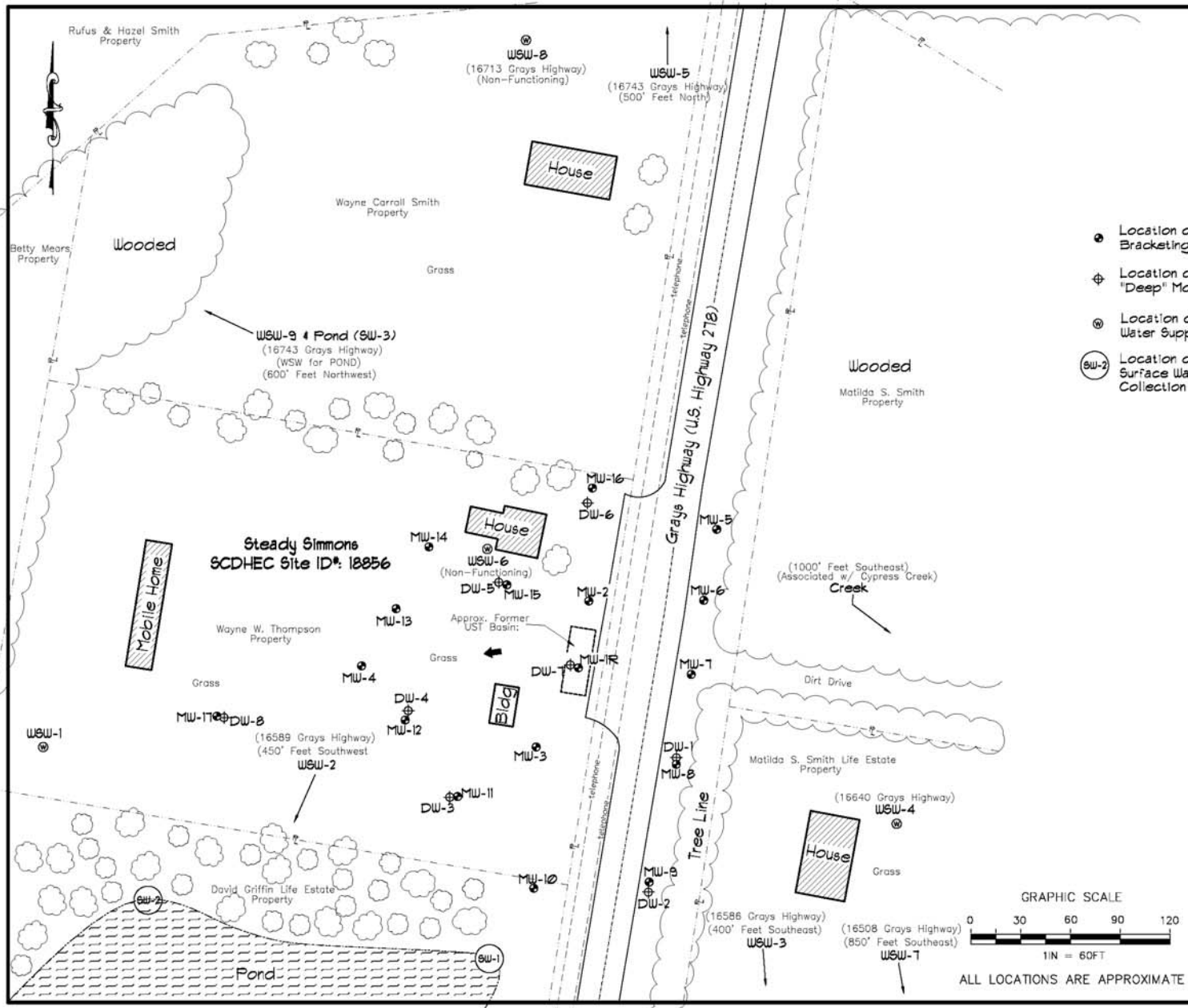
Sample ID	Sampled?	Date	Time	Screened Interval	Depth to Product (ft)	Depth to Water (ft)	Product Thickness (ft)	TOC Elevation	Groundwater Elevation	Initial DO (mg/l)	# Gals. Purged	Comments
Trip Blank	Y	10/6/21	8:00	***	***	***	***	***	***	***	***	Trip Blank
WSW-1	N	10/6/21	NS	***	***	***	***	***	***	***	***	White Trailer on Onsite, Denied Access to Sample
WSW-2	N	10/6/21	NS	***	***	***	***	***	***	***	***	16589 Grays Highway, Denied Access to Sample
WSW-3	Y	10/6/21	13:15	***	***	***	***	***	***	***	***	Sample Taken From Spigot on Well House, 16586 Grays Highway (32.691472,-81.027875)
WSW-4	N	10/6/21	NS	***	***	***	***	***	***	***	***	16640 Grays Highway, Denied Access to Sample
WSW-5	Y	10/6/21	13:45	***	***	***	***	***	***	***	***	Sample collected from Spigot on WSW (32.693831,-81.030328)
WSW-6	N	10/6/21	NS	***	***	***	***	***	***	***	***	Not Operational, Onsite
WSW-7	N	10/6/21	NS	***	***	***	***	***	***	***	***	Well not operational; House no longer at property; Well possibly abandoned
WSW-8	N	10/6/21	NS	***	***	***	***	***	***	***	***	Not Operational/No Resident, 16713 Gray Highway
WSW-9	Y	10/6/21	13:47	***	***	***	***	***	***	***	***	Sample collected from Spigot on WSW (32.693878,-81.028554)
WSW-DUP	Y	10/6/21	13:15	***	***	***	***	***	***	***	***	Duplicate Sample of WSW-3
Field Blank WSW	Y	10/6/21	14:10	***	***	***	***	***	***	***	***	Field Blank WSW
Trip Blank WSW	Y	10/6/21	8:00	***	***	***	***	***	***	***	***	Trip Blank WSW
											0.00	<b>TOTAL GALLONS PURGED</b>

## FIGURES



# Steady Simmons UST Permit 18856



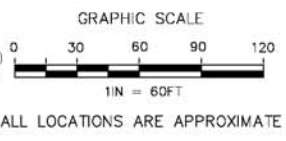


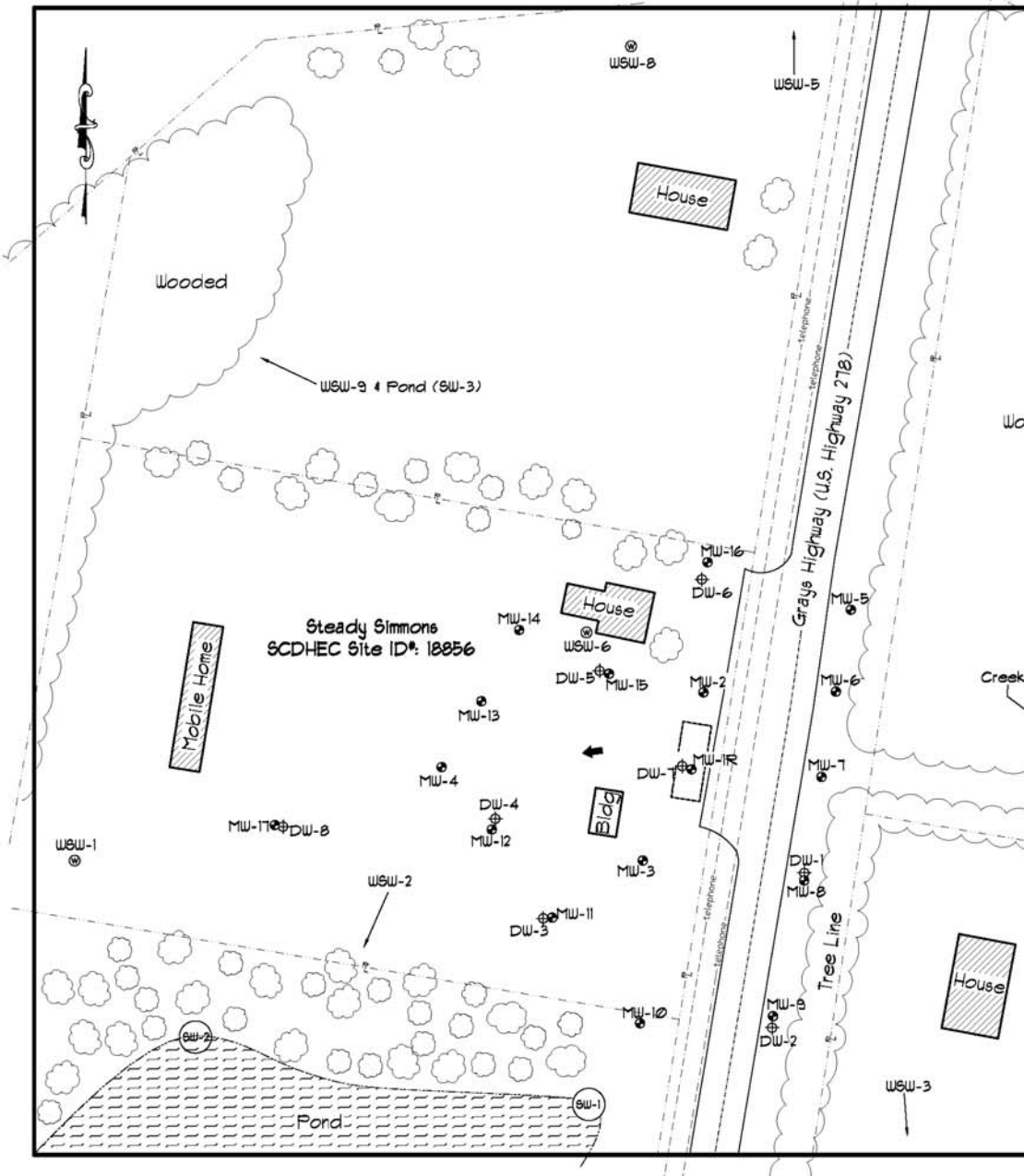
**Explanation:**

- Location of Watertable Bracketing Monitoring Well
- ⊕ Location of Double Cased "Deep" Monitoring Well
- ⊙ Location of Water Supply Well
- ⊙(SU-2) Location of Surface Water Sample Collection
- ↑ Estimated Groundwater Flow Direction
- Estimated Location of Removed Underground Storage Tanks
- Property Line
- Under Ground Telephone
- Pond Edge

Drawing Based on MECI Field Notes, Tax Maps, RLS Survey of the Site by Jay S. Joshi dated December 7, 2011, and Figure 2 by Crawford Environmental Services.

<b>Site Base Map</b>	
<b>Steady Simmons</b> <b>16661 Grays Highway</b> <b>Early Branch, South Carolina</b> <b>SCDHEC Site ID 18056</b>	
<b>Midlands Environmental Consultants, Inc.</b>	JOB NO. 21-7680 DATE October 19, 2021 FIGURE <b>2</b>

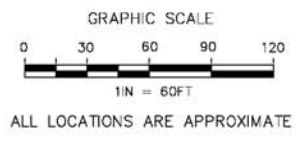




Sample ID	Analytical Method Constituent of Concern	EPA 82600																	
		EPA 8011																	
		1,2-Dibromethane (EDB)	1,2-Dichloroethane	3,3-Dimethyl-1-Butanol	Benzene	Diisopropyl ether	Ethanol	Ethyl-tert-butyl ether	Ethylbenzene	Methyl-tert-butyl ether	Naphthalene	Toluene	Xylylene (Total)	m&p-Xylylene	o-Xylylene	tert-Amyl Alcohol	tert-Amyl(methyl) ether	tert-Butyl Alcohol	tert-Butyl Formate
Date Collected (mm/dd/yy)	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	
DUPLICATE	10/06/2021	<0.0081	<0.32	<51.9	<0.34	<0.31	<72.2	<3.2	<0.30	<0.42	<0.64	<0.48	<0.34	<0.71	<0.34	<36.4	<2.7	<26.8	<29.4
DW-1	10/06/2021	<0.0081	<2.1	<53.9	<1.7	<3.5	<144	<8.5	<1.8	<3.1	<2.1	<2.0	<5.0	<4.1	<2.0	<65.6	<3.0	<91.0	<24.1
DW-2	10/06/2021	<0.0081	<2.1	<53.9	<1.7	<3.5	<144	<8.5	<1.8	<3.1	<2.1	<2.0	<5.0	<4.1	<2.0	<65.6	<3.0	<91.0	<24.1
FIELD BLANK	10/06/2021	<0.0080	<2.1	<53.9	<1.7	<3.5	<144	<8.5	<1.8	<3.1	<2.1	<2.0	<5.0	<4.1	<2.0	<65.6	<3.0	<91.0	<24.1
MW-10	10/06/2021	<0.0080	<2.1	<53.9	<1.7	<3.5	<144	<8.5	<1.8	<3.1	<2.1	<2.0	<5.0	<4.1	<2.0	<65.6	<3.0	<91.0	<24.1
MW-1R	10/06/2021	<0.0082	<2.1	<53.9	<1.7	<3.5	<144	<8.5	<1.8	<3.1	<2.1	<2.0	<5.0	<4.1	<2.0	<65.6	<3.0	<91.0	<24.1
MW-2	10/06/2021	<b>0.30</b>	<10.3	<270	<b>131</b>	<17.4	<720	<42.3	619	<b>1170</b>	<b>285</b>	<b>1170</b>	3310	1950	1350	<328	<15.2	<455	<120
MW-5	10/06/2021	<0.0080	<2.1	<53.9	<1.7	<3.5	<144	<8.5	<1.8	<3.1	<2.1	<2.0	<5.0	<4.1	<2.0	<65.6	<3.0	<91.0	<24.1
MW-6	10/06/2021	<0.0081	<2.1	<53.9	<1.7	<3.5	<144	<8.5	<1.8	<3.1	<2.1	<2.0	<5.0	<4.1	<2.0	<65.6	<3.0	<91.0	<24.1
MW-7	10/06/2021	<0.0081	<2.1	<53.9	<1.7	<3.5	<144	<8.5	<1.8	<3.1	<2.1	<2.0	<5.0	<4.1	<2.0	<65.6	<3.0	<91.0	<24.1
MW-8	10/06/2021	<0.0079	<2.1	<53.9	<1.7	<3.5	<144	<8.5	<1.8	<3.1	<2.1	<2.0	<5.0	<4.1	<2.0	<65.6	<3.0	<91.0	<24.1
MW-9	10/06/2021	<0.0079	<2.1	<53.9	<1.7	<3.5	<144	<8.5	<1.8	<3.1	<2.1	<2.0	<5.0	<4.1	<2.0	<65.6	<3.0	<91.0	<24.1
SW-1	10/06/2021	<0.0080	<0.32	<51.9	<0.34	<0.31	<72.2	<3.2	<0.30	<0.42	<0.64	<0.48	<0.34	<0.71	<0.34	<36.4	<2.7	<26.8	<29.4
SW-2	10/06/2021	<0.0079	<0.32	<51.9	<0.34	<0.31	<72.2	<3.2	<0.30	<0.42	<0.64	<0.48	<0.34	<0.71	<0.34	<36.4	<2.7	<26.8	<29.4
SW-3	10/06/2021	<0.0079	<0.32	<51.9	<0.34	<0.31	<72.2	<3.2	<0.30	<0.42	<0.64	<0.48	<0.34	<0.71	<0.34	<36.4	<2.7	<26.8	<29.4
TRIP BLANK	10/06/2021	N/A	<2.1	<53.9	<1.7	<3.5	<144	<8.5	<1.8	<3.1	<2.1	<2.0	<5.0	<4.1	<2.0	<65.6	<3.0	<91.0	<24.1
South Carolina RBSL for Groundwater		0.05	5	N/A	5	150	10000	47	700	40	25	1000	10000	N/A	N/A	240	128	1400	N/A
South Carolina Action Levels for Groundwater		N/A	N/A	N/A	N/A	150	10000	47	N/A	N/A	N/A	N/A	N/A	N/A	N/A	240	128	1400	N/A

NOTES:  
 ND = Not Detected  
 ft. BGS = feet below ground surface  
 mg/L = milligrams per liter  
 ug/L = micrograms per liter  
 Bold data above the RBSL (Risk Based Screening Level)

Drawing Based on MECI Field Notes, Tax Maps, RLS Survey of the Site by Jay S. Joshi dated December 7, 2011, and Figure 2 by Crawford Environmental Services.

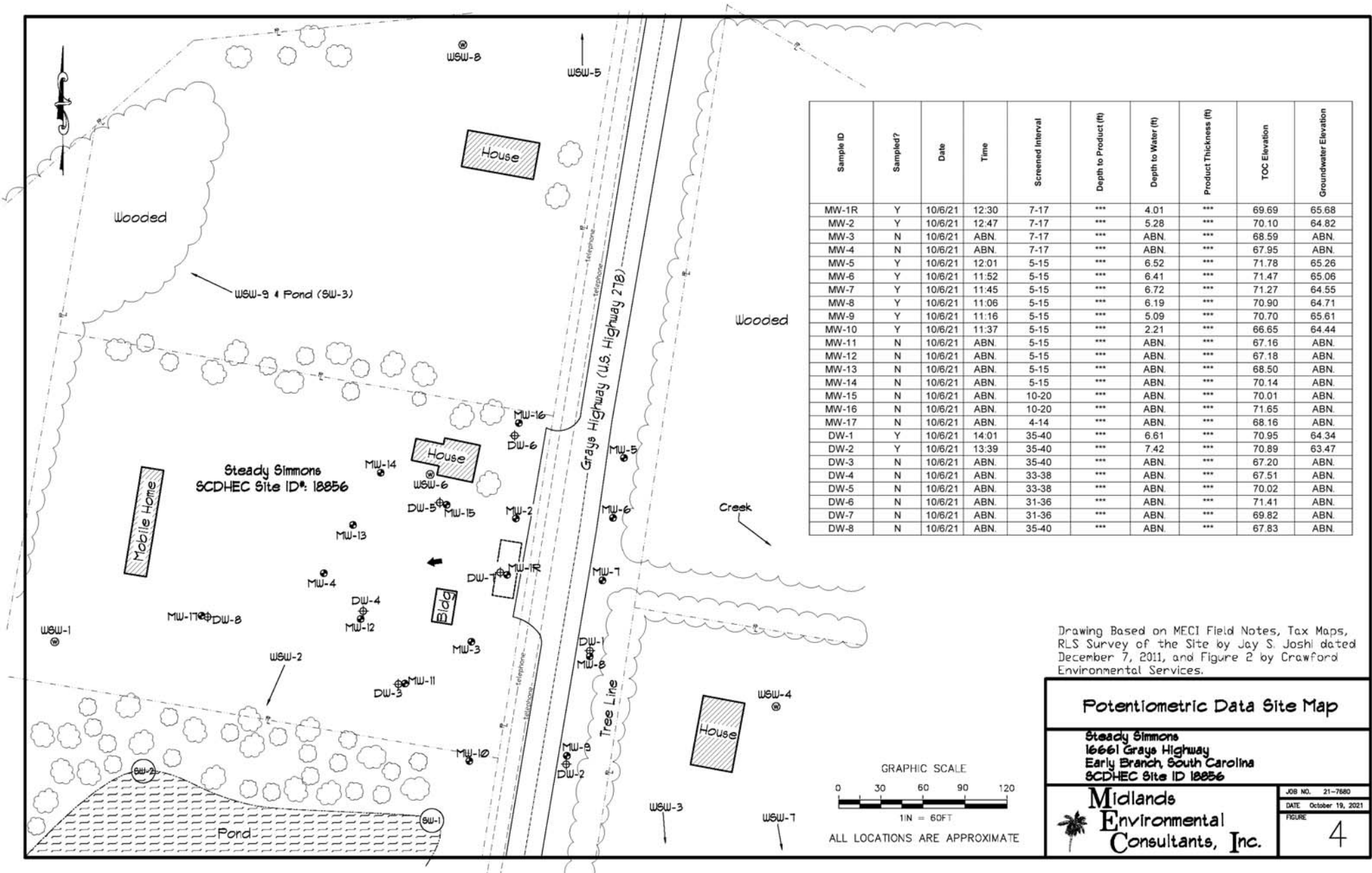


**Groundwater CoC Site Map**

Steady Simmons  
 16661 Grays Highway  
 Early Branch, South Carolina  
 SCDHEC Site ID 18056

**Midlands  
Environmental  
Consultants, Inc.**

JOB NO. 21-7680  
 DATE October 19, 2021  
 FIGURE 3



Sample ID	Sampled?	Date	Time	Screened Interval	Depth to Product (ft)	Depth to Water (ft)	Product Thickness (ft)	TOC Elevation	Groundwater Elevation
MW-1R	Y	10/6/21	12:30	7-17	***	4.01	***	69.69	65.68
MW-2	Y	10/6/21	12:47	7-17	***	5.28	***	70.10	64.82
MW-3	N	10/6/21	ABN.	7-17	***	ABN.	***	68.59	ABN.
MW-4	N	10/6/21	ABN.	7-17	***	ABN.	***	67.95	ABN.
MW-5	Y	10/6/21	12:01	5-15	***	6.52	***	71.78	65.26
MW-6	Y	10/6/21	11:52	5-15	***	6.41	***	71.47	65.06
MW-7	Y	10/6/21	11:45	5-15	***	6.72	***	71.27	64.55
MW-8	Y	10/6/21	11:06	5-15	***	6.19	***	70.90	64.71
MW-9	Y	10/6/21	11:16	5-15	***	5.09	***	70.70	65.61
MW-10	Y	10/6/21	11:37	5-15	***	2.21	***	66.65	64.44
MW-11	N	10/6/21	ABN.	5-15	***	ABN.	***	67.16	ABN.
MW-12	N	10/6/21	ABN.	5-15	***	ABN.	***	67.18	ABN.
MW-13	N	10/6/21	ABN.	5-15	***	ABN.	***	68.50	ABN.
MW-14	N	10/6/21	ABN.	5-15	***	ABN.	***	70.14	ABN.
MW-15	N	10/6/21	ABN.	10-20	***	ABN.	***	70.01	ABN.
MW-16	N	10/6/21	ABN.	10-20	***	ABN.	***	71.65	ABN.
MW-17	N	10/6/21	ABN.	4-14	***	ABN.	***	68.16	ABN.
DW-1	Y	10/6/21	14:01	35-40	***	6.61	***	70.95	64.34
DW-2	Y	10/6/21	13:39	35-40	***	7.42	***	70.89	63.47
DW-3	N	10/6/21	ABN.	35-40	***	ABN.	***	67.20	ABN.
DW-4	N	10/6/21	ABN.	33-38	***	ABN.	***	67.51	ABN.
DW-5	N	10/6/21	ABN.	33-38	***	ABN.	***	70.02	ABN.
DW-6	N	10/6/21	ABN.	31-36	***	ABN.	***	71.41	ABN.
DW-7	N	10/6/21	ABN.	31-36	***	ABN.	***	69.82	ABN.
DW-8	N	10/6/21	ABN.	35-40	***	ABN.	***	67.83	ABN.

Drawing Based on MECI Field Notes, Tax Maps, RLS Survey of the Site by Jay S. Joshi dated December 7, 2011, and Figure 2 by Crawford Environmental Services.

**Potentiometric Data Site Map**

Steady Simmons  
16661 Gray's Highway  
Early Branch, South Carolina  
SCDHEC Site ID 18056

GRAPHIC SCALE

1 IN = 60 FT

ALL LOCATIONS ARE APPROXIMATE

JOB NO. 21-7680  
DATE October 19, 2021  
FIGURE 4

**Midlands Environmental Consultants, Inc.**

**APPENDIX A:**

**SAMPLING LOGS, LABORATORY DATA SHEETS, & CHAIN-OF-CUSTODY FORMS**

# Monitoring Well Purge And Sampling Data

Field Personnel: MF, CH  
 Sampling Date(s): 10/06/2011  
 Sampling Case#: 1

Job Name: Steady Simmons  
 Job Number: 21-7680

Calibration Data for:  
 Calibration Successful? Yes or No (Please Circle)  
 pH: Yes  No   
 Conductivity: Yes  No   
 Dissolved Oxygen: Yes  No   
 Turbidity: Conductivity Calibrated Every 3 Months by QA Manager

Well No.	Purge Volume	Sample Time	pH(i)	cond(i)	Temp. (°C)	DO (mg/l)	Turbidity (NTU)	Depth to (feet):			Well Depth (feet)	Water Height *(feet)	Gallons Purged		Notes	
								product	initial H <sub>2</sub> O	final H <sub>2</sub> O			**calc.	actual		
mw-12	Initial	12:15	4.69	72.8	24.1	3.64	48.71								no odor Apt (1) purge	
	1st	12:18	5.25	90.7	24.6	4.02	64.07					2.11				
	2nd	12:22	5.29	100.2	25.2	4.09	70.2									
	3rd	12:24	5.32	101.6	25.5	4.12	71.71									
	4th	12:27	5.35	102.5	25.7	4.12	62.07		4.01		7-17	12.09		11.00g		
	5th	12:30	5.36	102.3	25.7	4.14	49.92							16.58		
	Sampling															
mw-2	Initial	12:36	5.22	64.7	23.6	1.99	39.76								slight odor purge	
	1st	12:38	5.41	75.5	23.9	2.15	124.6							1.91		
	2nd	12:40	5.47	81.2	24.2	2.24	151.7									
	3rd	12:42	5.51	81.7	24.5	2.27	89.62									
	4th	12:45	5.53	81.7	24.5	2.30	47.03		5.28		7-17	11.72		10.00g		
	5th	12:47	5.52	81.6	24.6	2.30	38.11							9.55		
	Sampling															
mw-5	Initial	12:01	5.24	84.2	24.2	3.63	24.91								no odor no purge	
	1st															
	2nd															
	3rd															
	4th															
	5th															
	Sampling															
mw-6	Initial	11:52	4.79	69.74	23.4	3.43	47.07								no odor no purge	
	1st															
	2nd															
	3rd															
	4th															
	5th															
	Sampling															

\*= (Depth of Well) - (Depth to Water) = Water Height  
 \*\*= One Well Volume x 5 = Gallons Purged (calculated)  
 One Well Volume = x.047 for 1" wells \* x .163 for 2" wells, or \* x .66 for 4" wells, 1.469 for 6" wells

Casing	Gallons
1"	0.047
2"	0.163
4"	0.653
6"	1.469

Sampling Case#	Ph/Conductance SN	DO SN	Turbidity
Case #1	15H101448	17E101302	201301183
Case #2	15E101481	14H103098	201301174
Case #3	17E100512	17E103488	201510251

# Monitoring Well Purge And Sampling Data

Field Personnel: MF, CH  
 Sampling Date(s): 10/06/2021  
 Sampling Case#: 1

Job Name: Steady Simmons  
 Job Number: 21-7680

**Calibration Data for :**

Calibration Successful?  Yes or No (Please Circle)  
 pH:  Yes  No  
 Conductivity:  Yes  No  
 Dissolved Oxygen:  Yes  No  
 Turbidity: Conductivity Calibrated Every 3 Months by QA Manager

Well No.	Purge Volume	Sample Time	pH(i)	cond(i)	Temp. (°C)	DO (mg/l)	Turbidity (NTU)	Depth to (feet):			Well Depth (feet)	Water Height *(feet)	Gallons Purged		Notes
								product	initial H <sub>2</sub> O	final H <sub>2</sub> O			**calc.	actual	
mw-7	Initial	11:45	4.90	54.3	23.7	3.04	34.09								
	1st														
	2nd														
	3rd														
	4th								6.72		5-15	-	-	-	no odor
	5th											-	-	-	no purge
mw-8	Initial	11:06	6.29	63.7	22.9	2.89	47.06								
	1st														
	2nd														
	3rd														
	4th														
	5th								6.19		5-15	-	-	-	no odor
mw-9	Initial	11:16	5.89	84.6	23.6	3.51	34.38								
	1st														
	2nd														
	3rd														
	4th														
	5th								5.09		5-15	-	-	-	no odor
mw-10	Initial	11:23	5.24	89.6	23.9	3.27	49.08								
	1st	11:26	5.32	100.2	24.4	4.10	164.8								
	2nd	11:29	5.37	103.9	24.7	4.19	181.2						2.08		
	3rd	11:32	5.41	104.2	24.9	4.22	198.61								
	4th	11:35	5.41	104.6	25.1	4.25	64.22								
	5th	11:37	5.40	104.5	25.2	4.25	51.69								
	Sampling												16.42		organic odor

\*= (Depth of Well) - (Depth to Water = Water Height)  
 One Well Volume = x.047 for 1" wells \* x .163 for 2" wells, or \* x .66 for 4" wells, 1.469 for 6" wells  
 \*\*= One Well Volume x 5 = Gallons Purged (calculated)

Casing	Gallons
1"	0.047
2"	0.163
4"	0.653
6"	1.469

Sampling Case#	Ph/Conductance SN	DO SN	Turbidity
Case #1	15H101448	17E101302	201301183
Case #2	15E101481	14H103098	201301174
Case #3	17E100512	17E103488	201510251

# Monitoring Well Purge And Sampling Data

Field Personnel: MF, CH  
 Sampling Date(s): 10/06/2021  
 Sampling Case#: 1

Job Name: Steady Simmons  
 Job Number: 21-7680

Calibration Data for :  
 Calibration Successful? Yes or No (Please Circle)  
 pH: Yes No  
 Conductivity: Yes No  
 Dissolved Oxygen: Yes No  
 Turbidity: Conductivity Calibrated Every 3 Months by QA Manager

Well No.	Purge Volume	Sample Time	pH(i)	cond(i)	Temp. (°C)	DO (mg/l)	Turbidity (NTU)	Depth to (feet):			Well Depth (feet)	Water Height *(feet)	Gallons Purged		Notes
								product	initial H <sub>2</sub> O	final H <sub>2</sub> O			**calc.	actual	
Dw-1	Initial	10:44	5.25	56.77	24.9	3.11	24.90								
	1st	10:49	7.01	86.2	23.5	3.64	71.06								
	2nd	10:54	7.12	111.6	22.8	3.71	100.2								
	3rd	10:59	7.15	113.0	22.5	3.75	61.06								
	4th								6.61		35-40	33.39	5.44	16.50g	no odor
	5th														
	Sampling	14:01	5.29	61.2	23.8	3.09	27.72						27.21		purse
Dw-2	Initial	10:19	5.31	73.0	25.3	3.63	11.64								
	1st	10:24	6.12	86.5	24.1	4.51	64.06								
	2nd	10:30	6.21	92.2	23.6	4.63	89.91								
	3rd	10:35	6.24	94.0	23.2	4.65	30.16								
	4th								7.42		35-40	32.68	5.32	16.00g	no odor
	5th														
	Sampling	13:39	5.35	74.6	25.1	3.70	24.06						26.63		purse
Sw-1	Initial	13:00		pond	695.32	692.095	81.028624								
Sw-2	1st	13:06		pond	695.32	692.192	81.029035								
Sw-3	2nd														
	3rd														
	4th														
	5th														
	Sampling	13:24		pond	695.32	693.31	81.030328								
Duplicate	Initial	12:30													
Field Blank	1st														
	2nd														
	3rd														
	4th														
Trip Blank	5th														
	Sampling	8:00													

\* = (Depth of Well) - (Depth to Water = Water Height)  
 One Well Volume = x.047 for 1" wells \* x .163 for 2" wells, or \* x .66 for 4" wells, 1.469 for 6" wells  
 \*\* = One Well Volume x 5 = Gallons Purged (calculated)

MECI GAC 14:42

Casing	Gallons
1"	0.047
2"	0.163
4"	0.653
6"	1.469

Sampling Case#	Ph/Conductance SN	DO SN	Turbidity
Case #1	15H101448	17E101302	201301183
Case #2	15E101481	14H103098	201301174
Case #3	17E100512	17E103488	201510251





# Monitoring Well Purge And Sampling Data

Field Personnel: MF, CH  
 Sampling Date(s): 10/06/2021  
 Sampling Case#: 1

Job Name: Steady Simmons  
 Job Number: 21-7650

**Calibration Data for:**  
 Calibration Successful? Yes or No (Please Circle)  
 pH: Yes No  
 Conductivity: Yes No  
 Dissolved Oxygen: Yes No  
 Turbidity: Conductivity Calibrated Every 3 Months by QA Manager

Well No.	Purge Volume	Sample Time	pH(i)	cond(i)	Temp. (°C)	DO (mg/l)	Turbidity (NTU)	Depth to (feet):			Well Depth (feet)	Water Height *(feet)	Gallons Purged		Notes
								product	Initial H <sub>2</sub> O	final H <sub>2</sub> O			**calc.	actual	
wsw-1	Initial	Denial Access - DNS													
	1st														
wsw-2	2nd	Access denied - DNS													
	3rd														
wsw-3	4th														
	5th	@ 13:15 spigot on well House													
wsw-3	Sampling	32.691472, -81.027875													
	Initial														
wsw-4	1st	Access denied - DNS													
	2nd														
wsw-5	3rd	spigot on well 13:45													
	4th	GPS: 32.693931, -81.030328													
wsw-6	5th														
	Sampling	non functioning DNS													
wsw-7	Initial														
	1st	Inactive - DNS													
wsw-8	2nd														
	3rd	Inactive - DNS													
wsw-9	4th														
	5th	spigot on well 13:47													
wsw-9	Sampling	GPS - 32.693878, -81.028554													
	Initial														
wsw-DUP	1st	(wsw-3) 13:15													
	2nd														
wsw-FB	3rd	14:10													
	4th														
wsw-TB	5th	8:00													
	Sampling														

\*= (Depth of Well) - (Depth to Water = Water Height)  
 One Well Volume = x.047 for 1" wells \* x.163 for 2" wells, or \* x.66 for 4" wells, 1.469 for 6" wells  
 \*\*= One Well Volume x 5 = Gallons Purged (calculated)

Casing	Gallons
1"	0.047
2"	0.163
4"	0.653
6"	1.469

Sampling Case#	Ph/Conductance SN	DO SN	Turbidity
Case #1	15H101448	17E101302	201301183
Case #2	15E101481	14H103098	201301174
Case #3	17E100512	17E103488	201510251

October 14, 2021

Robert Dunn  
SCDHEC  
2600 Bull St  
Columbia, SC 29201

RE: Project: 18856/64183 STEADY SIMMONS  
Pace Project No.: 92565962

Dear Robert Dunn:

Enclosed are the analytical results for sample(s) received by the laboratory on October 08, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Charlotte

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Lindsey N Wooten  
lindsey.wooten@pacelabs.com  
(704)875-9092  
Project Manager

Enclosures

cc: Jeff Coleman, Midlands Environmental Consultants, Inc.  
Kyle Pudney, Midlands Environmental Consultants, Inc.  
Matt Wykel, SCDHEC



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: 18856/64183 STEADY SIMMONS

Pace Project No.: 92565962

---

**Pace Analytical Services Charlotte**

9800 Kincey Ave. Ste 100, Huntersville, NC 28078

Louisiana/NELAP Certification # LA170028

North Carolina Drinking Water Certification #: 37706

North Carolina Field Services Certification #: 5342

North Carolina Wastewater Certification #: 12

South Carolina Certification #: 99006001

Florida/NELAP Certification #: E87627

Kentucky UST Certification #: 84

Virginia/VELAP Certification #: 460221

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## REPORT OF LABORATORY ANALYSIS

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### SAMPLE SUMMARY

Project: 18856/64183 STEADY SIMMONS  
Pace Project No.: 92565962

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92565962001	MW-1R	Water	10/06/21 12:30	10/08/21 11:40
92565962002	MW-2	Water	10/06/21 12:47	10/08/21 11:40
92565962003	MW-5	Water	10/06/21 12:01	10/08/21 11:40
92565962004	MW-6	Water	10/06/21 11:52	10/08/21 11:40
92565962005	MW-7	Water	10/06/21 11:47	10/08/21 11:40
92565962006	MW-8	Water	10/06/21 11:06	10/08/21 11:40
92565962007	MW-9	Water	10/06/21 11:16	10/08/21 11:40
92565962008	MW-10	Water	10/06/21 11:37	10/08/21 11:40
92565962009	DW-1	Water	10/06/21 14:01	10/08/21 11:40
92565962010	DW-2	Water	10/06/21 13:39	10/08/21 11:40
92565962011	SW-1	Water	10/06/21 13:00	10/08/21 11:40
92565962012	SW-2	Water	10/06/21 13:06	10/08/21 11:40
92565962013	SW-3	Water	10/06/21 13:24	10/08/21 11:40
92565962014	DUPLICATE	Water	10/06/21 00:00	10/08/21 11:40
92565962015	FIELD BLANK	Water	10/06/21 14:03	10/08/21 11:40
92565962016	TRIP BLANK	Water	10/06/21 08:00	10/08/21 11:40

### REPORT OF LABORATORY ANALYSIS

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**SAMPLE ANALYTE COUNT**

Project: 18856/64183 STEADY SIMMONS  
Pace Project No.: 92565962

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92565962001	MW-1R	EPA 8011	HH	2	PASI-C
		EPA 8260D	BSH	20	PASI-C
92565962002	MW-2	EPA 8011	HH	2	PASI-C
		EPA 8260D	SAS	20	PASI-C
92565962003	MW-5	EPA 8011	HH	2	PASI-C
		EPA 8260D	BSH	20	PASI-C
92565962004	MW-6	EPA 8011	HH	2	PASI-C
		EPA 8260D	BSH	20	PASI-C
92565962005	MW-7	EPA 8011	HH	2	PASI-C
		EPA 8260D	BSH	20	PASI-C
92565962006	MW-8	EPA 8011	HH	2	PASI-C
		EPA 8260D	BSH	20	PASI-C
92565962007	MW-9	EPA 8011	HH	2	PASI-C
		EPA 8260D	BSH	20	PASI-C
92565962008	MW-10	EPA 8011	HH	2	PASI-C
		EPA 8260D	BSH	20	PASI-C
92565962009	DW-1	EPA 8011	HH	2	PASI-C
		EPA 8260D	BSH	20	PASI-C
92565962010	DW-2	EPA 8011	HH	2	PASI-C
		EPA 8260D	BSH	20	PASI-C
92565962011	SW-1	EPA 8011	HH	2	PASI-C
		EPA 8260D	NSCQ	20	PASI-C
92565962012	SW-2	EPA 8011	HH	2	PASI-C
		EPA 8260D	NSCQ	20	PASI-C
92565962013	SW-3	EPA 8011	HH	2	PASI-C
		EPA 8260D	NSCQ	20	PASI-C
92565962014	DUPLICATE	EPA 8011	HH	2	PASI-C
		EPA 8260D	SAS	20	PASI-C
92565962015	FIELD BLANK	EPA 8011	HH	2	PASI-C
		EPA 8260D	BSH	20	PASI-C
92565962016	TRIP BLANK	EPA 8260D	BSH	20	PASI-C

PASI-C = Pace Analytical Services - Charlotte

**REPORT OF LABORATORY ANALYSIS**

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**SUMMARY OF DETECTION**

Project: 18856/64183 STEADY SIMMONS  
Pace Project No.: 92565962

Lab Sample ID	Client Sample ID					
Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
<b>92565962002</b>	<b>MW-2</b>					
EPA 8011	1,2-Dibromoethane (EDB)	0.30	ug/L	0.020	10/12/21 23:34	
EPA 8260D	Benzene	131	ug/L	25.0	10/12/21 14:03	
EPA 8260D	Ethylbenzene	619	ug/L	25.0	10/12/21 14:03	
EPA 8260D	Naphthalene	285	ug/L	25.0	10/12/21 14:03	M1
EPA 8260D	Toluene	1170	ug/L	50.0	10/12/21 14:21	M1
EPA 8260D	Xylene (Total)	3310	ug/L	50.0	10/12/21 14:21	MS
EPA 8260D	m&p-Xylene	1950	ug/L	50.0	10/12/21 14:03	
EPA 8260D	o-Xylene	1350	ug/L	50.0	10/12/21 14:21	M1

**REPORT OF LABORATORY ANALYSIS**

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## PROJECT NARRATIVE

Project: 18856/64183 STEADY SIMMONS  
Pace Project No.: 92565962

---

**Method:** EPA 8011  
**Description:** 8011 GCS EDB and DBCP  
**Client:** SCDHEC  
**Date:** October 14, 2021

**General Information:**

15 samples were analyzed for EPA 8011 by Pace Analytical Services Charlotte. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

**Hold Time:**

The samples were analyzed within the method required hold times with any exceptions noted below.

**Sample Preparation:**

The samples were prepared in accordance with EPA 8011 with any exceptions noted below.

**Initial Calibrations (including MS Tune as applicable):**

All criteria were within method requirements with any exceptions noted below.

**Continuing Calibration:**

All criteria were within method requirements with any exceptions noted below.

**Surrogates:**

All surrogates were within QC limits with any exceptions noted below.

**Method Blank:**

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

**Laboratory Control Spike:**

All laboratory control spike compounds were within QC limits with any exceptions noted below.

**Matrix Spikes:**

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

**Duplicate Sample:**

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

**Additional Comments:**

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: 18856/64183 STEADY SIMMONS  
Pace Project No.: 92565962

---

**Method:** EPA 8260D  
**Description:** 8260 MSV Low Level SC  
**Client:** SCDHEC  
**Date:** October 14, 2021

### General Information:

4 samples were analyzed for EPA 8260D by Pace Analytical Services Charlotte. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

### Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

### Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

### Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

QC Batch: 652366

v1: The continuing calibration verification was above the method acceptance limit. Any detection for the analyte in the associated samples may have a high bias.

- BLANK (Lab ID: 3420733)
  - 3,3-Dimethyl-1-Butanol
- DUPLICATE (Lab ID: 92565962014)
  - 3,3-Dimethyl-1-Butanol
- LCS (Lab ID: 3420734)
  - 3,3-Dimethyl-1-Butanol

v3: The continuing calibration verification was below the method acceptance limit. Any detection for the analyte in the associated samples may have low bias.

- MS (Lab ID: 3420735)
  - tert-Butyl Alcohol
- MSD (Lab ID: 3420736)
  - tert-Butyl Alcohol

### Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

### Surrogates:

All surrogates were within QC limits with any exceptions noted below.

### Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

### Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

### Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: 18856/64183 STEADY SIMMONS  
Pace Project No.: 92565962

---

**Method:** EPA 8260D  
**Description:** 8260 MSV Low Level SC  
**Client:** SCDHEC  
**Date:** October 14, 2021

QC Batch: 652084

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 92565722003

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 3419523)

- m&p-Xylene

- o-Xylene

- MSD (Lab ID: 3419524)

- m&p-Xylene

- o-Xylene

P5: The EPA or method required sample preservation degrades this compound, therefore acceptable recoveries may not be achieved in sample matrix spikes.

- MS (Lab ID: 3419523)

- tert-Butyl Formate

- MSD (Lab ID: 3419524)

- tert-Butyl Formate

**Additional Comments:**

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## PROJECT NARRATIVE

Project: 18856/64183 STEADY SIMMONS  
Pace Project No.: 92565962

---

**Method:** EPA 8260D  
**Description:** 8260 MSV  
**Client:** SCDHEC  
**Date:** October 14, 2021

### General Information:

12 samples were analyzed for EPA 8260D by Pace Analytical Services Charlotte. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

### Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

### Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

### Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

QC Batch: 652238

v2: The continuing calibration verification was below the method acceptance limit. The analyte was not detected in the associated samples and the sensitivity of the instrument was verified with a reporting limit check standard.

- BLANK (Lab ID: 3420232)
  - 1,2-Dichloroethane
- MW-2 (Lab ID: 92565962002)
  - 1,2-Dichloroethane

v3: The continuing calibration verification was below the method acceptance limit. Any detection for the analyte in the associated samples may have low bias.

- LCS (Lab ID: 3420233)
  - 1,2-Dichloroethane
- MS (Lab ID: 3420234)
  - 1,2-Dichloroethane
- MSD (Lab ID: 3420235)
  - 1,2-Dichloroethane

### Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

### Surrogates:

All surrogates were within QC limits with any exceptions noted below.

### Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

### Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

### Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

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## PROJECT NARRATIVE

Project: 18856/64183 STEADY SIMMONS  
Pace Project No.: 92565962

---

**Method:** EPA 8260D  
**Description:** 8260 MSV  
**Client:** SCDHEC  
**Date:** October 14, 2021

QC Batch: 652238

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 92565962002

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 3420234)
  - Toluene
  - o-Xylene
- MSD (Lab ID: 3420235)
  - Naphthalene
  - Toluene
  - o-Xylene

### Additional Comments:

Analyte Comments:

QC Batch: 652238

E: Analyte concentration exceeded the calibration range. The reported result is estimated.

- MS (Lab ID: 3420234)
  - m&p-Xylene
  - o-Xylene
  - Toluene
- MSD (Lab ID: 3420235)
  - m&p-Xylene
  - o-Xylene
  - Toluene

This data package has been reviewed for quality and completeness and is approved for release.

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### ANALYTICAL RESULTS

Project: 18856/64183 STEADY SIMMONS  
Pace Project No.: 92565962

Sample: MW-1R									
Lab ID: 92565962001 Collected: 10/06/21 12:30 Received: 10/08/21 11:40 Matrix: Water									
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8011 GCS EDB and DBCP</b>									
Analytical Method: EPA 8011 Preparation Method: EPA 8011									
Pace Analytical Services - Charlotte									
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.0082	1	10/12/21 15:38	10/12/21 23:23	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	99	%	60-140		1	10/12/21 15:38	10/12/21 23:23	301-79-56	
<b>8260 MSV</b>									
Analytical Method: EPA 8260D									
Pace Analytical Services - Charlotte									
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		10/11/21 17:52	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		10/11/21 17:52	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		10/11/21 17:52	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		10/11/21 17:52	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	91.0	1		10/11/21 17:52	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		10/11/21 17:52	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		10/11/21 17:52	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	3.5	1		10/11/21 17:52	108-20-3	
Ethanol	ND	ug/L	200	144	1		10/11/21 17:52	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.8	1		10/11/21 17:52	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		10/11/21 17:52	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		10/11/21 17:52	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.1	1		10/11/21 17:52	91-20-3	
Toluene	ND	ug/L	5.0	2.0	1		10/11/21 17:52	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		10/11/21 17:52	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	4.1	1		10/11/21 17:52	179601-23-1	
o-Xylene	ND	ug/L	5.0	2.0	1		10/11/21 17:52	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	100	%	70-130		1		10/11/21 17:52	460-00-4	
1,2-Dichloroethane-d4 (S)	85	%	70-130		1		10/11/21 17:52	17060-07-0	
Toluene-d8 (S)	107	%	70-130		1		10/11/21 17:52	2037-26-5	

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### ANALYTICAL RESULTS

Project: 18856/64183 STEADY SIMMONS  
Pace Project No.: 92565962

Sample: MW-2      Lab ID: 92565962002      Collected: 10/06/21 12:47      Received: 10/08/21 11:40      Matrix: Water									
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8011 GCS EDB and DBCP</b>									
Analytical Method: EPA 8011    Preparation Method: EPA 8011									
Pace Analytical Services - Charlotte									
1,2-Dibromoethane (EDB)	0.30	ug/L	0.020	0.0083	1	10/12/21 15:38	10/12/21 23:34	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	115	%	60-140		1	10/12/21 15:38	10/12/21 23:34	301-79-56	
<b>8260 MSV</b>									
Analytical Method: EPA 8260D									
Pace Analytical Services - Charlotte									
tert-Amyl Alcohol	ND	ug/L	500	328	5		10/12/21 14:03	75-85-4	
tert-Amylmethyl ether	ND	ug/L	50.0	15.2	5		10/12/21 14:03	994-05-8	
Benzene	131	ug/L	25.0	8.7	5		10/12/21 14:03	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	500	270	5		10/12/21 14:03	624-95-3	
tert-Butyl Alcohol	ND	ug/L	500	455	5		10/12/21 14:03	75-65-0	
tert-Butyl Formate	ND	ug/L	250	120	5		10/12/21 14:03	762-75-4	
1,2-Dichloroethane	ND	ug/L	25.0	10.3	5		10/12/21 14:03	107-06-2	v2
Diisopropyl ether	ND	ug/L	25.0	17.4	5		10/12/21 14:03	108-20-3	
Ethanol	ND	ug/L	1000	720	5		10/12/21 14:03	64-17-5	
Ethylbenzene	619	ug/L	25.0	9.2	5		10/12/21 14:03	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	50.0	42.3	5		10/12/21 14:03	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	25.0	15.5	5		10/12/21 14:03	1634-04-4	
Naphthalene	285	ug/L	25.0	10.4	5		10/12/21 14:03	91-20-3	M1
Toluene	1170	ug/L	50.0	20.1	10		10/12/21 14:21	108-88-3	M1
Xylene (Total)	3310	ug/L	50.0	50.0	10		10/12/21 14:21	1330-20-7	MS
m&p-Xylene	1950	ug/L	50.0	20.6	5		10/12/21 14:03	179601-23-1	
o-Xylene	1350	ug/L	50.0	20.4	10		10/12/21 14:21	95-47-6	M1
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	97	%	70-130		5		10/12/21 14:03	460-00-4	
1,2-Dichloroethane-d4 (S)	87	%	70-130		5		10/12/21 14:03	17060-07-0	
Toluene-d8 (S)	96	%	70-130		5		10/12/21 14:03	2037-26-5	

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### ANALYTICAL RESULTS

Project: 18856/64183 STEADY SIMMONS  
Pace Project No.: 92565962

Sample: MW-5      Lab ID: 92565962003      Collected: 10/06/21 12:01      Received: 10/08/21 11:40      Matrix: Water									
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>8011 GCS EDB and DBCP</b>									
Analytical Method: EPA 8011    Preparation Method: EPA 8011									
Pace Analytical Services - Charlotte									
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.0080	1	10/12/21 15:38	10/12/21 23:45	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	106	%	60-140		1	10/12/21 15:38	10/12/21 23:45	301-79-56	
<b>8260 MSV</b>									
Analytical Method: EPA 8260D									
Pace Analytical Services - Charlotte									
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		10/11/21 18:10	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		10/11/21 18:10	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		10/11/21 18:10	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		10/11/21 18:10	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	91.0	1		10/11/21 18:10	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		10/11/21 18:10	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		10/11/21 18:10	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	3.5	1		10/11/21 18:10	108-20-3	
Ethanol	ND	ug/L	200	144	1		10/11/21 18:10	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.8	1		10/11/21 18:10	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		10/11/21 18:10	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		10/11/21 18:10	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.1	1		10/11/21 18:10	91-20-3	
Toluene	ND	ug/L	5.0	2.0	1		10/11/21 18:10	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		10/11/21 18:10	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	4.1	1		10/11/21 18:10	179601-23-1	
o-Xylene	ND	ug/L	5.0	2.0	1		10/11/21 18:10	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	95	%	70-130		1		10/11/21 18:10	460-00-4	
1,2-Dichloroethane-d4 (S)	84	%	70-130		1		10/11/21 18:10	17060-07-0	
Toluene-d8 (S)	104	%	70-130		1		10/11/21 18:10	2037-26-5	

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### ANALYTICAL RESULTS

Project: 18856/64183 STEADY SIMMONS  
Pace Project No.: 92565962

Sample: MW-6      Lab ID: 92565962004      Collected: 10/06/21 11:52      Received: 10/08/21 11:40      Matrix: Water									
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>8011 GCS EDB and DBCP</b>									
Analytical Method: EPA 8011    Preparation Method: EPA 8011									
Pace Analytical Services - Charlotte									
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.0081	1	10/12/21 15:38	10/12/21 23:55	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	106	%	60-140		1	10/12/21 15:38	10/12/21 23:55	301-79-56	
<b>8260 MSV</b>									
Analytical Method: EPA 8260D									
Pace Analytical Services - Charlotte									
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		10/11/21 18:28	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		10/11/21 18:28	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		10/11/21 18:28	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		10/11/21 18:28	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	91.0	1		10/11/21 18:28	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		10/11/21 18:28	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		10/11/21 18:28	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	3.5	1		10/11/21 18:28	108-20-3	
Ethanol	ND	ug/L	200	144	1		10/11/21 18:28	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.8	1		10/11/21 18:28	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		10/11/21 18:28	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		10/11/21 18:28	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.1	1		10/11/21 18:28	91-20-3	
Toluene	ND	ug/L	5.0	2.0	1		10/11/21 18:28	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		10/11/21 18:28	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	4.1	1		10/11/21 18:28	179601-23-1	
o-Xylene	ND	ug/L	5.0	2.0	1		10/11/21 18:28	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	97	%	70-130		1		10/11/21 18:28	460-00-4	
1,2-Dichloroethane-d4 (S)	85	%	70-130		1		10/11/21 18:28	17060-07-0	
Toluene-d8 (S)	106	%	70-130		1		10/11/21 18:28	2037-26-5	

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### ANALYTICAL RESULTS

Project: 18856/64183 STEADY SIMMONS  
Pace Project No.: 92565962

Sample: MW-7      Lab ID: 92565962005      Collected: 10/06/21 11:47      Received: 10/08/21 11:40      Matrix: Water									
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8011 GCS EDB and DBCP</b>									
Analytical Method: EPA 8011    Preparation Method: EPA 8011									
Pace Analytical Services - Charlotte									
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.0081	1	10/12/21 15:38	10/13/21 00:06	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	99	%	60-140		1	10/12/21 15:38	10/13/21 00:06	301-79-56	
<b>8260 MSV</b>									
Analytical Method: EPA 8260D									
Pace Analytical Services - Charlotte									
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		10/11/21 18:46	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		10/11/21 18:46	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		10/11/21 18:46	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		10/11/21 18:46	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	91.0	1		10/11/21 18:46	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		10/11/21 18:46	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		10/11/21 18:46	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	3.5	1		10/11/21 18:46	108-20-3	
Ethanol	ND	ug/L	200	144	1		10/11/21 18:46	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.8	1		10/11/21 18:46	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		10/11/21 18:46	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		10/11/21 18:46	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.1	1		10/11/21 18:46	91-20-3	
Toluene	ND	ug/L	5.0	2.0	1		10/11/21 18:46	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		10/11/21 18:46	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	4.1	1		10/11/21 18:46	179601-23-1	
o-Xylene	ND	ug/L	5.0	2.0	1		10/11/21 18:46	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	99	%	70-130		1		10/11/21 18:46	460-00-4	
1,2-Dichloroethane-d4 (S)	86	%	70-130		1		10/11/21 18:46	17060-07-0	
Toluene-d8 (S)	105	%	70-130		1		10/11/21 18:46	2037-26-5	

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### ANALYTICAL RESULTS

Project: 18856/64183 STEADY SIMMONS  
Pace Project No.: 92565962

Sample: MW-8      Lab ID: 92565962006      Collected: 10/06/21 11:06      Received: 10/08/21 11:40      Matrix: Water									
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>8011 GCS EDB and DBCP</b>									
Analytical Method: EPA 8011    Preparation Method: EPA 8011									
Pace Analytical Services - Charlotte									
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	0.0079	1	10/12/21 15:38	10/13/21 00:16	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	108	%	60-140		1	10/12/21 15:38	10/13/21 00:16	301-79-56	
<b>8260 MSV</b>									
Analytical Method: EPA 8260D									
Pace Analytical Services - Charlotte									
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		10/11/21 19:04	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		10/11/21 19:04	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		10/11/21 19:04	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		10/11/21 19:04	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	91.0	1		10/11/21 19:04	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		10/11/21 19:04	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		10/11/21 19:04	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	3.5	1		10/11/21 19:04	108-20-3	
Ethanol	ND	ug/L	200	144	1		10/11/21 19:04	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.8	1		10/11/21 19:04	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		10/11/21 19:04	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		10/11/21 19:04	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.1	1		10/11/21 19:04	91-20-3	
Toluene	ND	ug/L	5.0	2.0	1		10/11/21 19:04	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		10/11/21 19:04	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	4.1	1		10/11/21 19:04	179601-23-1	
o-Xylene	ND	ug/L	5.0	2.0	1		10/11/21 19:04	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	98	%	70-130		1		10/11/21 19:04	460-00-4	
1,2-Dichloroethane-d4 (S)	85	%	70-130		1		10/11/21 19:04	17060-07-0	
Toluene-d8 (S)	105	%	70-130		1		10/11/21 19:04	2037-26-5	

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### ANALYTICAL RESULTS

Project: 18856/64183 STEADY SIMMONS  
Pace Project No.: 92565962

Sample: MW-9      Lab ID: 92565962007      Collected: 10/06/21 11:16      Received: 10/08/21 11:40      Matrix: Water									
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>8011 GCS EDB and DBCP</b>									
Analytical Method: EPA 8011    Preparation Method: EPA 8011									
Pace Analytical Services - Charlotte									
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.0079	1	10/12/21 15:38	10/13/21 00:27	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	103	%	60-140		1	10/12/21 15:38	10/13/21 00:27	301-79-56	
<b>8260 MSV</b>									
Analytical Method: EPA 8260D									
Pace Analytical Services - Charlotte									
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		10/11/21 19:22	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		10/11/21 19:22	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		10/11/21 19:22	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		10/11/21 19:22	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	91.0	1		10/11/21 19:22	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		10/11/21 19:22	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		10/11/21 19:22	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	3.5	1		10/11/21 19:22	108-20-3	
Ethanol	ND	ug/L	200	144	1		10/11/21 19:22	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.8	1		10/11/21 19:22	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		10/11/21 19:22	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		10/11/21 19:22	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.1	1		10/11/21 19:22	91-20-3	
Toluene	ND	ug/L	5.0	2.0	1		10/11/21 19:22	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		10/11/21 19:22	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	4.1	1		10/11/21 19:22	179601-23-1	
o-Xylene	ND	ug/L	5.0	2.0	1		10/11/21 19:22	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	97	%	70-130		1		10/11/21 19:22	460-00-4	
1,2-Dichloroethane-d4 (S)	86	%	70-130		1		10/11/21 19:22	17060-07-0	
Toluene-d8 (S)	105	%	70-130		1		10/11/21 19:22	2037-26-5	

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### ANALYTICAL RESULTS

Project: 18856/64183 STEADY SIMMONS  
Pace Project No.: 92565962

Sample: MW-10      Lab ID: 92565962008      Collected: 10/06/21 11:37      Received: 10/08/21 11:40      Matrix: Water									
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>8011 GCS EDB and DBCP</b>									
Analytical Method: EPA 8011    Preparation Method: EPA 8011									
Pace Analytical Services - Charlotte									
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.0080	1	10/12/21 15:38	10/13/21 00:37	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	104	%	60-140		1	10/12/21 15:38	10/13/21 00:37	301-79-56	
<b>8260 MSV</b>									
Analytical Method: EPA 8260D									
Pace Analytical Services - Charlotte									
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		10/11/21 19:40	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		10/11/21 19:40	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		10/11/21 19:40	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		10/11/21 19:40	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	91.0	1		10/11/21 19:40	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		10/11/21 19:40	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		10/11/21 19:40	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	3.5	1		10/11/21 19:40	108-20-3	
Ethanol	ND	ug/L	200	144	1		10/11/21 19:40	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.8	1		10/11/21 19:40	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		10/11/21 19:40	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		10/11/21 19:40	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.1	1		10/11/21 19:40	91-20-3	
Toluene	ND	ug/L	5.0	2.0	1		10/11/21 19:40	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		10/11/21 19:40	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	4.1	1		10/11/21 19:40	179601-23-1	
o-Xylene	ND	ug/L	5.0	2.0	1		10/11/21 19:40	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	97	%	70-130		1		10/11/21 19:40	460-00-4	
1,2-Dichloroethane-d4 (S)	85	%	70-130		1		10/11/21 19:40	17060-07-0	
Toluene-d8 (S)	116	%	70-130		1		10/11/21 19:40	2037-26-5	

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### ANALYTICAL RESULTS

Project: 18856/64183 STEADY SIMMONS  
Pace Project No.: 92565962

Sample: DW-1									
Lab ID: 92565962009 Collected: 10/06/21 14:01 Received: 10/08/21 11:40 Matrix: Water									
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8011 GCS EDB and DBCP</b>									
Analytical Method: EPA 8011 Preparation Method: EPA 8011									
Pace Analytical Services - Charlotte									
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.0081	1	10/12/21 15:38	10/13/21 00:48	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	105	%	60-140		1	10/12/21 15:38	10/13/21 00:48	301-79-56	
<b>8260 MSV</b>									
Analytical Method: EPA 8260D									
Pace Analytical Services - Charlotte									
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		10/11/21 19:58	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		10/11/21 19:58	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		10/11/21 19:58	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		10/11/21 19:58	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	91.0	1		10/11/21 19:58	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		10/11/21 19:58	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		10/11/21 19:58	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	3.5	1		10/11/21 19:58	108-20-3	
Ethanol	ND	ug/L	200	144	1		10/11/21 19:58	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.8	1		10/11/21 19:58	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		10/11/21 19:58	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		10/11/21 19:58	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.1	1		10/11/21 19:58	91-20-3	
Toluene	ND	ug/L	5.0	2.0	1		10/11/21 19:58	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		10/11/21 19:58	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	4.1	1		10/11/21 19:58	179601-23-1	
o-Xylene	ND	ug/L	5.0	2.0	1		10/11/21 19:58	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	97	%	70-130		1		10/11/21 19:58	460-00-4	
1,2-Dichloroethane-d4 (S)	84	%	70-130		1		10/11/21 19:58	17060-07-0	
Toluene-d8 (S)	105	%	70-130		1		10/11/21 19:58	2037-26-5	

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### ANALYTICAL RESULTS

Project: 18856/64183 STEADY SIMMONS  
Pace Project No.: 92565962

Sample: DW-2      Lab ID: 92565962010      Collected: 10/06/21 13:39      Received: 10/08/21 11:40      Matrix: Water									
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>8011 GCS EDB and DBCP</b>									
Analytical Method: EPA 8011    Preparation Method: EPA 8011									
Pace Analytical Services - Charlotte									
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.0081	1	10/12/21 15:38	10/13/21 00:59	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	105	%	60-140		1	10/12/21 15:38	10/13/21 00:59	301-79-56	
<b>8260 MSV</b>									
Analytical Method: EPA 8260D									
Pace Analytical Services - Charlotte									
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		10/11/21 20:16	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		10/11/21 20:16	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		10/11/21 20:16	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		10/11/21 20:16	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	91.0	1		10/11/21 20:16	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		10/11/21 20:16	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		10/11/21 20:16	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	3.5	1		10/11/21 20:16	108-20-3	
Ethanol	ND	ug/L	200	144	1		10/11/21 20:16	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.8	1		10/11/21 20:16	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		10/11/21 20:16	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		10/11/21 20:16	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.1	1		10/11/21 20:16	91-20-3	
Toluene	ND	ug/L	5.0	2.0	1		10/11/21 20:16	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		10/11/21 20:16	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	4.1	1		10/11/21 20:16	179601-23-1	
o-Xylene	ND	ug/L	5.0	2.0	1		10/11/21 20:16	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	98	%	70-130		1		10/11/21 20:16	460-00-4	
1,2-Dichloroethane-d4 (S)	86	%	70-130		1		10/11/21 20:16	17060-07-0	
Toluene-d8 (S)	105	%	70-130		1		10/11/21 20:16	2037-26-5	

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### ANALYTICAL RESULTS

Project: 18856/64183 STEADY SIMMONS  
Pace Project No.: 92565962

Sample: SW-1									
Lab ID: 92565962011 Collected: 10/06/21 13:00 Received: 10/08/21 11:40 Matrix: Water									
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>8011 GCS EDB and DBCP</b>									
Analytical Method: EPA 8011 Preparation Method: EPA 8011									
Pace Analytical Services - Charlotte									
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.0080	1	10/12/21 15:38	10/13/21 01:09	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	104	%	60-140		1	10/12/21 15:38	10/13/21 01:09	301-79-56	
<b>8260 MSV Low Level SC</b>									
Analytical Method: EPA 8260D									
Pace Analytical Services - Charlotte									
tert-Amyl Alcohol	ND	ug/L	100	36.4	1		10/12/21 08:20	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	2.7	1		10/12/21 08:20	994-05-8	
Benzene	ND	ug/L	1.0	0.34	1		10/12/21 08:20	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	51.9	1		10/12/21 08:20	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	26.8	1		10/12/21 08:20	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	29.4	1		10/12/21 08:20	762-75-4	
1,2-Dichloroethane	ND	ug/L	1.0	0.32	1		10/12/21 08:20	107-06-2	
Diisopropyl ether	ND	ug/L	1.0	0.31	1		10/12/21 08:20	108-20-3	
Ethanol	ND	ug/L	200	72.2	1		10/12/21 08:20	64-17-5	
Ethylbenzene	ND	ug/L	1.0	0.30	1		10/12/21 08:20	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.2	1		10/12/21 08:20	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.42	1		10/12/21 08:20	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.64	1		10/12/21 08:20	91-20-3	
Toluene	ND	ug/L	1.0	0.48	1		10/12/21 08:20	108-88-3	
Xylene (Total)	ND	ug/L	1.0	0.34	1		10/12/21 08:20	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.71	1		10/12/21 08:20	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.34	1		10/12/21 08:20	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	96	%	70-130		1		10/12/21 08:20	460-00-4	
1,2-Dichloroethane-d4 (S)	92	%	70-130		1		10/12/21 08:20	17060-07-0	
Toluene-d8 (S)	101	%	70-130		1		10/12/21 08:20	2037-26-5	

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### ANALYTICAL RESULTS

Project: 18856/64183 STEADY SIMMONS  
Pace Project No.: 92565962

Sample: SW-2      Lab ID: 92565962012      Collected: 10/06/21 13:06      Received: 10/08/21 11:40      Matrix: Water									
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>8011 GCS EDB and DBCP</b>									
Analytical Method: EPA 8011    Preparation Method: EPA 8011									
Pace Analytical Services - Charlotte									
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	0.0079	1	10/12/21 15:38	10/13/21 01:20	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	105	%	60-140		1	10/12/21 15:38	10/13/21 01:20	301-79-56	
<b>8260 MSV Low Level SC</b>									
Analytical Method: EPA 8260D									
Pace Analytical Services - Charlotte									
tert-Amyl Alcohol	ND	ug/L	100	36.4	1		10/12/21 08:01	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	2.7	1		10/12/21 08:01	994-05-8	
Benzene	ND	ug/L	1.0	0.34	1		10/12/21 08:01	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	51.9	1		10/12/21 08:01	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	26.8	1		10/12/21 08:01	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	29.4	1		10/12/21 08:01	762-75-4	
1,2-Dichloroethane	ND	ug/L	1.0	0.32	1		10/12/21 08:01	107-06-2	
Diisopropyl ether	ND	ug/L	1.0	0.31	1		10/12/21 08:01	108-20-3	
Ethanol	ND	ug/L	200	72.2	1		10/12/21 08:01	64-17-5	
Ethylbenzene	ND	ug/L	1.0	0.30	1		10/12/21 08:01	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.2	1		10/12/21 08:01	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.42	1		10/12/21 08:01	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.64	1		10/12/21 08:01	91-20-3	
Toluene	ND	ug/L	1.0	0.48	1		10/12/21 08:01	108-88-3	
Xylene (Total)	ND	ug/L	1.0	0.34	1		10/12/21 08:01	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.71	1		10/12/21 08:01	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.34	1		10/12/21 08:01	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	98	%	70-130		1		10/12/21 08:01	460-00-4	
1,2-Dichloroethane-d4 (S)	94	%	70-130		1		10/12/21 08:01	17060-07-0	
Toluene-d8 (S)	99	%	70-130		1		10/12/21 08:01	2037-26-5	

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 18856/64183 STEADY SIMMONS  
Pace Project No.: 92565962

Sample: SW-3      Lab ID: 92565962013      Collected: 10/06/21 13:24      Received: 10/08/21 11:40      Matrix: Water									
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>8011 GCS EDB and DBCP</b>									
Analytical Method: EPA 8011    Preparation Method: EPA 8011									
Pace Analytical Services - Charlotte									
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	0.0079	1	10/12/21 15:38	10/13/21 02:12	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	104	%	60-140		1	10/12/21 15:38	10/13/21 02:12	301-79-56	
<b>8260 MSV Low Level SC</b>									
Analytical Method: EPA 8260D									
Pace Analytical Services - Charlotte									
tert-Amyl Alcohol	ND	ug/L	100	36.4	1		10/12/21 07:43	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	2.7	1		10/12/21 07:43	994-05-8	
Benzene	ND	ug/L	1.0	0.34	1		10/12/21 07:43	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	51.9	1		10/12/21 07:43	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	26.8	1		10/12/21 07:43	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	29.4	1		10/12/21 07:43	762-75-4	
1,2-Dichloroethane	ND	ug/L	1.0	0.32	1		10/12/21 07:43	107-06-2	
Diisopropyl ether	ND	ug/L	1.0	0.31	1		10/12/21 07:43	108-20-3	
Ethanol	ND	ug/L	200	72.2	1		10/12/21 07:43	64-17-5	
Ethylbenzene	ND	ug/L	1.0	0.30	1		10/12/21 07:43	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.2	1		10/12/21 07:43	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.42	1		10/12/21 07:43	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.64	1		10/12/21 07:43	91-20-3	
Toluene	ND	ug/L	1.0	0.48	1		10/12/21 07:43	108-88-3	
Xylene (Total)	ND	ug/L	1.0	0.34	1		10/12/21 07:43	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.71	1		10/12/21 07:43	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.34	1		10/12/21 07:43	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	99	%	70-130		1		10/12/21 07:43	460-00-4	
1,2-Dichloroethane-d4 (S)	92	%	70-130		1		10/12/21 07:43	17060-07-0	
Toluene-d8 (S)	99	%	70-130		1		10/12/21 07:43	2037-26-5	

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### ANALYTICAL RESULTS

Project: 18856/64183 STEADY SIMMONS  
Pace Project No.: 92565962

Sample: DUPLICATE      Lab ID: 92565962014      Collected: 10/06/21 00:00      Received: 10/08/21 11:40      Matrix: Water									
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>8011 GCS EDB and DBCP</b>									
Analytical Method: EPA 8011      Preparation Method: EPA 8011									
Pace Analytical Services - Charlotte									
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.0081	1	10/12/21 15:38	10/13/21 02:44	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	106	%	60-140		1	10/12/21 15:38	10/13/21 02:44	301-79-56	
<b>8260 MSV Low Level SC</b>									
Analytical Method: EPA 8260D									
Pace Analytical Services - Charlotte									
tert-Amyl Alcohol	ND	ug/L	100	36.4	1		10/12/21 23:43	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	2.7	1		10/12/21 23:43	994-05-8	
Benzene	ND	ug/L	1.0	0.34	1		10/12/21 23:43	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	51.9	1		10/12/21 23:43	624-95-3	v1
tert-Butyl Alcohol	ND	ug/L	100	26.8	1		10/12/21 23:43	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	29.4	1		10/12/21 23:43	762-75-4	
1,2-Dichloroethane	ND	ug/L	1.0	0.32	1		10/12/21 23:43	107-06-2	
Diisopropyl ether	ND	ug/L	1.0	0.31	1		10/12/21 23:43	108-20-3	
Ethanol	ND	ug/L	200	72.2	1		10/12/21 23:43	64-17-5	
Ethylbenzene	ND	ug/L	1.0	0.30	1		10/12/21 23:43	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.2	1		10/12/21 23:43	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.42	1		10/12/21 23:43	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.64	1		10/12/21 23:43	91-20-3	
Toluene	ND	ug/L	1.0	0.48	1		10/12/21 23:43	108-88-3	
Xylene (Total)	ND	ug/L	1.0	0.34	1		10/12/21 23:43	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.71	1		10/12/21 23:43	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.34	1		10/12/21 23:43	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	90	%	70-130		1		10/12/21 23:43	460-00-4	
1,2-Dichloroethane-d4 (S)	85	%	70-130		1		10/12/21 23:43	17060-07-0	
Toluene-d8 (S)	97	%	70-130		1		10/12/21 23:43	2037-26-5	

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### ANALYTICAL RESULTS

Project: 18856/64183 STEADY SIMMONS  
Pace Project No.: 92565962

Sample: FIELD BLANK      Lab ID: 92565962015      Collected: 10/06/21 14:03      Received: 10/08/21 11:40      Matrix: Water									
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>8011 GCS EDB and DBCP</b>									
Analytical Method: EPA 8011      Preparation Method: EPA 8011									
Pace Analytical Services - Charlotte									
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.0080	1	10/12/21 15:38	10/13/21 03:05	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	103	%	60-140		1	10/12/21 15:38	10/13/21 03:05	301-79-56	
<b>8260 MSV</b>									
Analytical Method: EPA 8260D									
Pace Analytical Services - Charlotte									
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		10/11/21 16:58	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		10/11/21 16:58	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		10/11/21 16:58	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		10/11/21 16:58	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	91.0	1		10/11/21 16:58	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		10/11/21 16:58	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		10/11/21 16:58	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	3.5	1		10/11/21 16:58	108-20-3	
Ethanol	ND	ug/L	200	144	1		10/11/21 16:58	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.8	1		10/11/21 16:58	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		10/11/21 16:58	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		10/11/21 16:58	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.1	1		10/11/21 16:58	91-20-3	
Toluene	ND	ug/L	5.0	2.0	1		10/11/21 16:58	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		10/11/21 16:58	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	4.1	1		10/11/21 16:58	179601-23-1	
o-Xylene	ND	ug/L	5.0	2.0	1		10/11/21 16:58	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	97	%	70-130		1		10/11/21 16:58	460-00-4	
1,2-Dichloroethane-d4 (S)	86	%	70-130		1		10/11/21 16:58	17060-07-0	
Toluene-d8 (S)	108	%	70-130		1		10/11/21 16:58	2037-26-5	

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### ANALYTICAL RESULTS

Project: 18856/64183 STEADY SIMMONS  
Pace Project No.: 92565962

Sample: TRIP BLANK      Lab ID: 92565962016      Collected: 10/06/21 08:00      Received: 10/08/21 11:40      Matrix: Water									
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>8260 MSV</b>									
Analytical Method: EPA 8260D									
Pace Analytical Services - Charlotte									
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		10/11/21 17:16	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		10/11/21 17:16	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		10/11/21 17:16	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		10/11/21 17:16	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	91.0	1		10/11/21 17:16	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		10/11/21 17:16	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		10/11/21 17:16	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	3.5	1		10/11/21 17:16	108-20-3	
Ethanol	ND	ug/L	200	144	1		10/11/21 17:16	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.8	1		10/11/21 17:16	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		10/11/21 17:16	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		10/11/21 17:16	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.1	1		10/11/21 17:16	91-20-3	
Toluene	ND	ug/L	5.0	2.0	1		10/11/21 17:16	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		10/11/21 17:16	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	4.1	1		10/11/21 17:16	179601-23-1	
o-Xylene	ND	ug/L	5.0	2.0	1		10/11/21 17:16	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	97	%	70-130		1		10/11/21 17:16	460-00-4	
1,2-Dichloroethane-d4 (S)	84	%	70-130		1		10/11/21 17:16	17060-07-0	
Toluene-d8 (S)	106	%	70-130		1		10/11/21 17:16	2037-26-5	

### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 18856/64183 STEADY SIMMONS  
Pace Project No.: 92565962

QC Batch: 652084 Analysis Method: EPA 8260D  
QC Batch Method: EPA 8260D Analysis Description: 8260 MSV Low Level SC  
Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92565962011, 92565962012, 92565962013

METHOD BLANK: 3419521 Matrix: Water

Associated Lab Samples: 92565962011, 92565962012, 92565962013

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	1.0	0.32	10/12/21 03:29	
3,3-Dimethyl-1-Butanol	ug/L	ND	100	51.9	10/12/21 03:29	
Benzene	ug/L	ND	1.0	0.34	10/12/21 03:29	
Diisopropyl ether	ug/L	ND	1.0	0.31	10/12/21 03:29	
Ethanol	ug/L	ND	200	72.2	10/12/21 03:29	
Ethyl-tert-butyl ether	ug/L	ND	10.0	3.2	10/12/21 03:29	
Ethylbenzene	ug/L	ND	1.0	0.30	10/12/21 03:29	
m&p-Xylene	ug/L	ND	2.0	0.71	10/12/21 03:29	
Methyl-tert-butyl ether	ug/L	ND	1.0	0.42	10/12/21 03:29	
Naphthalene	ug/L	ND	1.0	0.64	10/12/21 03:29	
o-Xylene	ug/L	ND	1.0	0.34	10/12/21 03:29	
tert-Amyl Alcohol	ug/L	ND	100	36.4	10/12/21 03:29	
tert-Amylmethyl ether	ug/L	ND	10.0	2.7	10/12/21 03:29	
tert-Butyl Alcohol	ug/L	ND	100	26.8	10/12/21 03:29	
tert-Butyl Formate	ug/L	ND	50.0	29.4	10/12/21 03:29	
Toluene	ug/L	ND	1.0	0.48	10/12/21 03:29	
Xylene (Total)	ug/L	ND	1.0	0.34	10/12/21 03:29	
1,2-Dichloroethane-d4 (S)	%	91	70-130		10/12/21 03:29	
4-Bromofluorobenzene (S)	%	100	70-130		10/12/21 03:29	
Toluene-d8 (S)	%	100	70-130		10/12/21 03:29	

LABORATORY CONTROL SAMPLE: 3419522

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	50	49.2	98	70-130	
3,3-Dimethyl-1-Butanol	ug/L	1000	1100	110	70-130	
Benzene	ug/L	50	54.6	109	70-130	
Diisopropyl ether	ug/L	50	49.6	99	70-130	
Ethanol	ug/L	2000	1900	95	70-130	
Ethyl-tert-butyl ether	ug/L	100	103	103	70-130	
Ethylbenzene	ug/L	50	56.6	113	70-130	
m&p-Xylene	ug/L	100	112	112	70-130	
Methyl-tert-butyl ether	ug/L	50	50.5	101	70-130	
Naphthalene	ug/L	50	58.7	117	70-130	
o-Xylene	ug/L	50	55.4	111	70-130	
tert-Amyl Alcohol	ug/L	1000	1060	106	70-130	
tert-Amylmethyl ether	ug/L	100	106	106	70-130	
tert-Butyl Alcohol	ug/L	500	495	99	70-130	
tert-Butyl Formate	ug/L	400	403	101	70-130	

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### QUALITY CONTROL DATA

Project: 18856/64183 STEADY SIMMONS  
Pace Project No.: 92565962

LABORATORY CONTROL SAMPLE: 3419522

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Toluene	ug/L	50	54.2	108	70-130	
Xylene (Total)	ug/L	150	168	112	70-130	
1,2-Dichloroethane-d4 (S)	%			87	70-130	
4-Bromofluorobenzene (S)	%			100	70-130	
Toluene-d8 (S)	%			97	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3419523 3419524

Parameter	Units	92565722003		MS		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		Result	Conc.	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec						
1,2-Dichloroethane	ug/L	ND	100	100	104	105	102	103	103	103	70-137	1	30		
3,3-Dimethyl-1-Butanol	ug/L	ND	2000	2000	2040	2010	102	101	101	101	39-157	2	30		
Benzene	ug/L	585	100	100	735	730	150	145	145	145	70-151	1	30		
Diisopropyl ether	ug/L	ND	100	100	113	113	102	102	102	102	63-144	0	30		
Ethanol	ug/L	ND	4000	4000	4430	4380	111	110	110	110	39-176	1	30		
Ethyl-tert-butyl ether	ug/L	ND	200	200	209	210	104	105	105	105	66-137	1	30		
Ethylbenzene	ug/L	ND	100	100	72.5	69.7	70	67	67	67	66-153	4	30		
m&p-Xylene	ug/L	ND	200	200	31.5	28.8	16	14	14	14	69-152	9	30 M1		
Methyl-tert-butyl ether	ug/L	223	100	100	339	342	116	119	119	119	54-156	1	30		
Naphthalene	ug/L	ND	100	100	107	105	92	90	90	90	61-148	2	30		
o-Xylene	ug/L	ND	100	100	26.9	25.6	27	26	26	26	70-148	5	30 M1		
tert-Amyl Alcohol	ug/L	6960	2000	2000	9730	9620	138	133	133	133	54-153	1	30		
tert-Amylmethyl ether	ug/L	ND	200	200	217	217	109	108	108	108	69-139	0	30		
tert-Butyl Alcohol	ug/L	ND	1000	1000	1860	1870	149	150	150	150	43-188	1	30		
tert-Butyl Formate	ug/L	ND	800	800	ND	ND	7	7	7	7	10-170		30 P5		
Toluene	ug/L	32.8	100	100	141	134	109	102	102	102	59-148	5	30		
Xylene (Total)	ug/L	ND	300	300	58.4	54.4	19	18	18	18	63-158	7	30 MS		
1,2-Dichloroethane-d4 (S)	%							88	88	88	70-130				
4-Bromofluorobenzene (S)	%							98	98	98	70-130				
Toluene-d8 (S)	%							97	97	97	70-130				

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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### QUALITY CONTROL DATA

Project: 18856/64183 STEADY SIMMONS  
Pace Project No.: 92565962

QC Batch: 652366	Analysis Method: EPA 8260D
QC Batch Method: EPA 8260D	Analysis Description: 8260 MSV Low Level SC
	Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92565962014

METHOD BLANK: 3420733 Matrix: Water  
Associated Lab Samples: 92565962014

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	1.0	0.32	10/12/21 22:15	
3,3-Dimethyl-1-Butanol	ug/L	ND	100	51.9	10/12/21 22:15	v1
Benzene	ug/L	ND	1.0	0.34	10/12/21 22:15	
Diisopropyl ether	ug/L	ND	1.0	0.31	10/12/21 22:15	
Ethanol	ug/L	ND	200	72.2	10/12/21 22:15	
Ethyl-tert-butyl ether	ug/L	ND	10.0	3.2	10/12/21 22:15	
Ethylbenzene	ug/L	ND	1.0	0.30	10/12/21 22:15	
m&p-Xylene	ug/L	ND	2.0	0.71	10/12/21 22:15	
Methyl-tert-butyl ether	ug/L	ND	1.0	0.42	10/12/21 22:15	
Naphthalene	ug/L	ND	1.0	0.64	10/12/21 22:15	
o-Xylene	ug/L	ND	1.0	0.34	10/12/21 22:15	
tert-Amyl Alcohol	ug/L	ND	100	36.4	10/12/21 22:15	
tert-Amylmethyl ether	ug/L	ND	10.0	2.7	10/12/21 22:15	
tert-Butyl Alcohol	ug/L	ND	100	26.8	10/12/21 22:15	
tert-Butyl Formate	ug/L	ND	50.0	29.4	10/12/21 22:15	
Toluene	ug/L	ND	1.0	0.48	10/12/21 22:15	
Xylene (Total)	ug/L	ND	1.0	0.34	10/12/21 22:15	
1,2-Dichloroethane-d4 (S)	%	84	70-130		10/12/21 22:15	
4-Bromofluorobenzene (S)	%	93	70-130		10/12/21 22:15	
Toluene-d8 (S)	%	98	70-130		10/12/21 22:15	

LABORATORY CONTROL SAMPLE: 3420734

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	50	39.9	80	70-130	
3,3-Dimethyl-1-Butanol	ug/L	1000	1210	121	70-130	v1
Benzene	ug/L	50	49.4	99	70-130	
Diisopropyl ether	ug/L	50	42.0	84	70-130	
Ethanol	ug/L	2000	1680	84	70-130	
Ethyl-tert-butyl ether	ug/L	100	89.8	90	70-130	
Ethylbenzene	ug/L	50	57.8	116	70-130	
m&p-Xylene	ug/L	100	110	110	70-130	
Methyl-tert-butyl ether	ug/L	50	43.3	87	70-130	
Naphthalene	ug/L	50	56.3	113	70-130	
o-Xylene	ug/L	50	56.8	114	70-130	
tert-Amyl Alcohol	ug/L	1000	1030	103	70-130	
tert-Amylmethyl ether	ug/L	100	102	102	70-130	
tert-Butyl Alcohol	ug/L	500	429	86	70-130	
tert-Butyl Formate	ug/L	400	327	82	70-130	

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### REPORT OF LABORATORY ANALYSIS

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**QUALITY CONTROL DATA**

Project: 18856/64183 STEADY SIMMONS  
Pace Project No.: 92565962

LABORATORY CONTROL SAMPLE: 3420734

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Toluene	ug/L	50	50.1	100	70-130	
Xylene (Total)	ug/L	150	167	111	70-130	
1,2-Dichloroethane-d4 (S)	%			83	70-130	
4-Bromofluorobenzene (S)	%			99	70-130	
Toluene-d8 (S)	%			94	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3420735 3420736

Parameter	Units	92566091045		MS		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		Result	Conc.	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec						
1,2-Dichloroethane	ug/L	ND	20	20	18.3	16.7	92	83	70-137	10	30				
3,3-Dimethyl-1-Butanol	ug/L	ND	400	400	410	343	102	86	39-157	18	30				
Benzene	ug/L	ND	20	20	21.2	18.7	106	93	70-151	12	30				
Diisopropyl ether	ug/L	ND	20	20	15.8	14.2	79	71	63-144	11	30				
Ethanol	ug/L	ND	800	800	909	756	114	95	39-176	18	30				
Ethyl-tert-butyl ether	ug/L	ND	40	40	34.7	31.0	87	78	66-137	11	30				
Ethylbenzene	ug/L	ND	20	20	22.7	19.8	113	99	66-153	13	30				
m&p-Xylene	ug/L	ND	40	40	46.1	40.2	115	100	69-152	14	30				
Methyl-tert-butyl ether	ug/L	ND	20	20	18.1	16.0	90	80	54-156	12	30				
Naphthalene	ug/L	ND	20	20	22.5	19.9	113	100	61-148	12	30				
o-Xylene	ug/L	ND	20	20	22.1	19.5	111	97	70-148	13	30				
tert-Amyl Alcohol	ug/L	ND	400	400	451	382	113	95	54-153	17	30				
tert-Amylmethyl ether	ug/L	ND	40	40	39.2	34.6	98	86	69-139	12	30				
tert-Butyl Alcohol	ug/L	ND	200	200	219	195	109	97	43-188	12	30	v3			
tert-Butyl Formate	ug/L	ND	160	160	63.4	43.2J	40	27	10-170		30				
Toluene	ug/L	ND	20	20	20.8	18.5	104	92	59-148	12	30				
Xylene (Total)	ug/L	ND	60	60	68.2	59.6	114	99	63-158	13	30				
1,2-Dichloroethane-d4 (S)	%							90	93	70-130					
4-Bromofluorobenzene (S)	%							99	96	70-130					
Toluene-d8 (S)	%							95	95	70-130					

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**REPORT OF LABORATORY ANALYSIS**

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### QUALITY CONTROL DATA

Project: 18856/64183 STEADY SIMMONS  
Pace Project No.: 92565962

QC Batch: 652083 Analysis Method: EPA 8260D  
QC Batch Method: EPA 8260D Analysis Description: 8260 MSV SC  
Laboratory: Pace Analytical Services - Charlotte  
Associated Lab Samples: 92565962001, 92565962003, 92565962004, 92565962005, 92565962006, 92565962007, 92565962008, 92565962009, 92565962010, 92565962015, 92565962016

METHOD BLANK: 3419498 Matrix: Water  
Associated Lab Samples: 92565962001, 92565962003, 92565962004, 92565962005, 92565962006, 92565962007, 92565962008, 92565962009, 92565962010, 92565962015, 92565962016

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	5.0	2.1	10/11/21 12:11	
3,3-Dimethyl-1-Butanol	ug/L	ND	100	53.9	10/11/21 12:11	
Benzene	ug/L	ND	5.0	1.7	10/11/21 12:11	
Diisopropyl ether	ug/L	ND	5.0	3.5	10/11/21 12:11	
Ethanol	ug/L	ND	200	144	10/11/21 12:11	
Ethyl-tert-butyl ether	ug/L	ND	10.0	8.5	10/11/21 12:11	
Ethylbenzene	ug/L	ND	5.0	1.8	10/11/21 12:11	
m&p-Xylene	ug/L	ND	10.0	4.1	10/11/21 12:11	
Methyl-tert-butyl ether	ug/L	ND	5.0	3.1	10/11/21 12:11	
Naphthalene	ug/L	ND	5.0	2.1	10/11/21 12:11	
o-Xylene	ug/L	ND	5.0	2.0	10/11/21 12:11	
tert-Amyl Alcohol	ug/L	ND	100	65.6	10/11/21 12:11	
tert-Amylmethyl ether	ug/L	ND	10.0	3.0	10/11/21 12:11	
tert-Butyl Alcohol	ug/L	ND	100	91.0	10/11/21 12:11	
tert-Butyl Formate	ug/L	ND	50.0	24.1	10/11/21 12:11	
Toluene	ug/L	ND	5.0	2.0	10/11/21 12:11	
Xylene (Total)	ug/L	ND	5.0	5.0	10/11/21 12:11	
1,2-Dichloroethane-d4 (S)	%	87	70-130		10/11/21 12:11	
4-Bromofluorobenzene (S)	%	100	70-130		10/11/21 12:11	
Toluene-d8 (S)	%	105	70-130		10/11/21 12:11	

LABORATORY CONTROL SAMPLE: 3419499

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	50	48.0	96	70-130	
3,3-Dimethyl-1-Butanol	ug/L	1000	1060	106	70-130	
Benzene	ug/L	50	49.4	99	70-130	
Diisopropyl ether	ug/L	50	46.6	93	70-130	
Ethanol	ug/L	2000	1940	97	70-130	
Ethyl-tert-butyl ether	ug/L	100	95.1	95	70-130	
Ethylbenzene	ug/L	50	47.6	95	70-130	
m&p-Xylene	ug/L	100	96.2	96	70-130	
Methyl-tert-butyl ether	ug/L	50	47.1	94	70-130	
Naphthalene	ug/L	50	44.9	90	70-130	
o-Xylene	ug/L	50	46.1	92	70-130	
tert-Amyl Alcohol	ug/L	1000	969	97	70-130	
tert-Amylmethyl ether	ug/L	100	91.7	92	70-130	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 18856/64183 STEADY SIMMONS  
Pace Project No.: 92565962

LABORATORY CONTROL SAMPLE: 3419499

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
tert-Butyl Alcohol	ug/L	500	433	87	70-130	
tert-Butyl Formate	ug/L	400	386	96	70-130	
Toluene	ug/L	50	45.5	91	70-130	
Xylene (Total)	ug/L	150	142	95	70-130	
1,2-Dichloroethane-d4 (S)	%			98	70-130	
4-Bromofluorobenzene (S)	%			98	70-130	
Toluene-d8 (S)	%			94	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3419500 3419501

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92565962010 Result	Spike Conc.	Spike Conc.	MS Result						
1,2-Dichloroethane	ug/L	ND	20	20	18.5	19.7	93	98	70-137	6	30
3,3-Dimethyl-1-Butanol	ug/L	ND	400	400	404	433	101	108	39-157	7	30
Benzene	ug/L	ND	20	20	20.5	21.9	103	109	70-151	6	30
Diisopropyl ether	ug/L	ND	20	20	16.3	16.4	81	82	63-144	1	30
Ethanol	ug/L	ND	800	800	719	780	90	98	39-176	8	30
Ethyl-tert-butyl ether	ug/L	ND	40	40	33.2	35.8	83	90	66-137	8	30
Ethylbenzene	ug/L	ND	20	20	20.3	22.2	101	111	66-153	9	30
m&p-Xylene	ug/L	ND	40	40	41.4	45.8	103	114	69-152	10	30
Methyl-tert-butyl ether	ug/L	ND	20	20	15.4	17.3	77	86	54-156	12	30
Naphthalene	ug/L	ND	20	20	18.2	21.4	91	107	61-148	16	30
o-Xylene	ug/L	ND	20	20	19.4	21.4	97	107	70-148	10	30
tert-Amyl Alcohol	ug/L	ND	400	400	322	388	80	97	54-153	19	30
tert-Amylmethyl ether	ug/L	ND	40	40	34.9	39.3	87	98	69-139	12	30
tert-Butyl Alcohol	ug/L	ND	200	200	205	229	102	115	43-188	11	30
tert-Butyl Formate	ug/L	ND	160	160	105	102	66	63	10-170	3	30
Toluene	ug/L	ND	20	20	20.2	21.6	101	108	59-148	7	30
Xylene (Total)	ug/L	ND	60	60	60.8	67.2	101	112	63-158	10	30
1,2-Dichloroethane-d4 (S)	%						102	103	70-130		
4-Bromofluorobenzene (S)	%						101	96	70-130		
Toluene-d8 (S)	%						100	101	70-130		

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 18856/64183 STEADY SIMMONS  
Pace Project No.: 92565962

QC Batch: 652238	Analysis Method: EPA 8260D
QC Batch Method: EPA 8260D	Analysis Description: 8260 MSV SC
	Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92565962002

METHOD BLANK: 3420232 Matrix: Water  
Associated Lab Samples: 92565962002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	5.0	2.1	10/12/21 11:44	v2
3,3-Dimethyl-1-Butanol	ug/L	ND	100	53.9	10/12/21 11:44	
Benzene	ug/L	ND	5.0	1.7	10/12/21 11:44	
Diisopropyl ether	ug/L	ND	5.0	3.5	10/12/21 11:44	
Ethanol	ug/L	ND	200	144	10/12/21 11:44	
Ethyl-tert-butyl ether	ug/L	ND	10.0	8.5	10/12/21 11:44	
Ethylbenzene	ug/L	ND	5.0	1.8	10/12/21 11:44	
m&p-Xylene	ug/L	ND	10.0	4.1	10/12/21 11:44	
Methyl-tert-butyl ether	ug/L	ND	5.0	3.1	10/12/21 11:44	
Naphthalene	ug/L	ND	5.0	2.1	10/12/21 11:44	
o-Xylene	ug/L	ND	5.0	2.0	10/12/21 11:44	
tert-Amyl Alcohol	ug/L	ND	100	65.6	10/12/21 11:44	
tert-Amylmethyl ether	ug/L	ND	10.0	3.0	10/12/21 11:44	
tert-Butyl Alcohol	ug/L	ND	100	91.0	10/12/21 11:44	
tert-Butyl Formate	ug/L	ND	50.0	24.1	10/12/21 11:44	
Toluene	ug/L	ND	5.0	2.0	10/12/21 11:44	
Xylene (Total)	ug/L	ND	5.0	5.0	10/12/21 11:44	
1,2-Dichloroethane-d4 (S)	%	86	70-130		10/12/21 11:44	
4-Bromofluorobenzene (S)	%	93	70-130		10/12/21 11:44	
Toluene-d8 (S)	%	95	70-130		10/12/21 11:44	

LABORATORY CONTROL SAMPLE: 3420233

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	50	39.6	79	70-130	v3
3,3-Dimethyl-1-Butanol	ug/L	1000	1180	118	70-130	
Benzene	ug/L	50	48.6	97	70-130	
Diisopropyl ether	ug/L	50	42.7	85	70-130	
Ethanol	ug/L	2000	1670	83	70-130	
Ethyl-tert-butyl ether	ug/L	100	92.1	92	70-130	
Ethylbenzene	ug/L	50	56.4	113	70-130	
m&p-Xylene	ug/L	100	108	108	70-130	
Methyl-tert-butyl ether	ug/L	50	44.3	89	70-130	
Naphthalene	ug/L	50	57.1	114	70-130	
o-Xylene	ug/L	50	58.3	117	70-130	
tert-Amyl Alcohol	ug/L	1000	1030	103	70-130	
tert-Amylmethyl ether	ug/L	100	103	103	70-130	
tert-Butyl Alcohol	ug/L	500	435	87	70-130	
tert-Butyl Formate	ug/L	400	341	85	70-130	

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### REPORT OF LABORATORY ANALYSIS

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**QUALITY CONTROL DATA**

Project: 18856/64183 STEADY SIMMONS  
Pace Project No.: 92565962

LABORATORY CONTROL SAMPLE: 3420233

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Toluene	ug/L	50	48.7	97	70-130	
Xylene (Total)	ug/L	150	166	111	70-130	
1,2-Dichloroethane-d4 (S)	%			83	70-130	
4-Bromofluorobenzene (S)	%			94	70-130	
Toluene-d8 (S)	%			92	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3420234 3420235

Parameter	Units	3420234		3420235		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92565962002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result						
1,2-Dichloroethane	ug/L	ND	100	100	80.5	84.9	80	85	70-137	5	30 v3
3,3-Dimethyl-1-Butanol	ug/L	ND	2000	2000	2070	2410	103	120	39-157	15	30
Benzene	ug/L	131	100	100	221	228	90	97	70-151	3	30
Diisopropyl ether	ug/L	ND	100	100	82.2	88.3	82	88	63-144	7	30
Ethanol	ug/L	ND	4000	4000	3050	3600	76	90	39-176	17	30
Ethyl-tert-butyl ether	ug/L	ND	200	200	179	185	90	92	66-137	3	30
Ethylbenzene	ug/L	619	100	100	695	724	76	105	66-153	4	30
m&p-Xylene	ug/L	1950	200	200	2140	2170	95	109	69-152	1	30 E
Methyl-tert-butyl ether	ug/L	ND	100	100	86.0	89.9	86	90	54-156	4	30
Naphthalene	ug/L	285	100	100	407	452	121	167	61-148	11	30 M1
o-Xylene	ug/L	1350	100	100	1350	1370	3	18	70-148	1	30 E,M1
tert-Amyl Alcohol	ug/L	ND	2000	2000	1940	2070	97	103	54-153	6	30
tert-Amylmethyl ether	ug/L	ND	200	200	203	211	101	106	69-139	4	30
tert-Butyl Alcohol	ug/L	ND	1000	1000	1000	1060	100	106	43-188	6	30
tert-Butyl Formate	ug/L	ND	800	800	367	378	46	47	10-170	3	30
Toluene	ug/L	1170	100	100	1170	1200	3	31	59-148	2	30 E,M1
Xylene (Total)	ug/L	3310	300	300	3500	3540	64	79	63-158	1	30 ES,MS
1,2-Dichloroethane-d4 (S)	%						85	82	70-130		
4-Bromofluorobenzene (S)	%						95	96	70-130		
Toluene-d8 (S)	%						94	93	70-130		

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**QUALITY CONTROL DATA**

Project: 18856/64183 STEADY SIMMONS  
Pace Project No.: 92565962

QC Batch: 652265 Analysis Method: EPA 8011  
QC Batch Method: EPA 8011 Analysis Description: GCS 8011 EDB DBCP  
Laboratory: Pace Analytical Services - Charlotte  
Associated Lab Samples: 92565962001, 92565962002, 92565962003, 92565962004, 92565962005, 92565962006, 92565962007, 92565962008, 92565962009, 92565962010, 92565962011, 92565962012

METHOD BLANK: 3420334 Matrix: Water  
Associated Lab Samples: 92565962001, 92565962002, 92565962003, 92565962004, 92565962005, 92565962006, 92565962007, 92565962008, 92565962009, 92565962010, 92565962011, 92565962012

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	0.020	0.0081	10/12/21 20:56	
1-Chloro-2-bromopropane (S)	%	109	60-140		10/12/21 20:56	

LABORATORY CONTROL SAMPLE & LCSD: 3420335 3420336

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	% Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	0.25	0.26	0.26	104	105	60-140	0	20	
1-Chloro-2-bromopropane (S)	%				102	107	60-140			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3420337 3420338

Parameter	Units	92565663027 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
1,2-Dibromoethane (EDB)	ug/L	ND	0.25	0.25	0.26	0.25	104	103	60-140	1	20
1-Chloro-2-bromopropane (S)	%						107	105	60-140		

SAMPLE DUPLICATE: 3420339

Parameter	Units	92565663028 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	ND		20	
1-Chloro-2-bromopropane (S)	%	106	104			

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**QUALITY CONTROL DATA**

Project: 18856/64183 STEADY SIMMONS  
Pace Project No.: 92565962

QC Batch: 652266 Analysis Method: EPA 8011  
QC Batch Method: EPA 8011 Analysis Description: GCS 8011 EDB DBCP  
Laboratory: Pace Analytical Services - Charlotte  
Associated Lab Samples: 92565962013, 92565962014, 92565962015

METHOD BLANK: 3420344 Matrix: Water  
Associated Lab Samples: 92565962013, 92565962014, 92565962015

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	0.020	0.0081	10/13/21 01:41	
1-Chloro-2-bromopropane (S)	%	101	60-140		10/13/21 01:41	

LABORATORY CONTROL SAMPLE & LCSD: 3420345 3420346

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	0.24	0.26	0.26	106	106	60-140	0	20	
1-Chloro-2-bromopropane (S)	%				105	108	60-140			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3420347 3420348

Parameter	Units	92565962013 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dibromoethane (EDB)	ug/L	ND	0.25	0.25	0.26	0.26	102	102	60-140	1	20	
1-Chloro-2-bromopropane (S)	%						104	102	60-140			

SAMPLE DUPLICATE: 3420349

Parameter	Units	92565962014 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	ND		20	
1-Chloro-2-bromopropane (S)	%	106	102			

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## QUALIFIERS

Project: 18856/64183 STEADY SIMMONS  
Pace Project No.: 92565962

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### DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.  
ND - Not Detected at or above adjusted reporting limit.  
TNTC - Too Numerous To Count  
J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.  
MDL - Adjusted Method Detection Limit.  
PQL - Practical Quantitation Limit.  
RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.  
S - Surrogate  
1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.  
Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.  
LCS(D) - Laboratory Control Sample (Duplicate)  
MS(D) - Matrix Spike (Duplicate)  
DUP - Sample Duplicate  
RPD - Relative Percent Difference  
NC - Not Calculable.  
SG - Silica Gel - Clean-Up  
U - Indicates the compound was analyzed for, but not detected.  
Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.  
A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.  
N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.  
Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.  
Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.  
TNI - The NELAC Institute.

### ANALYTE QUALIFIERS

E Analyte concentration exceeded the calibration range. The reported result is estimated.  
ES The reported result is estimated because one or more of the constituent results are qualified as such.  
M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.  
MS Analyte recovery in the matrix spike was outside QC limits for one or more of the constituent analytes used in the calculated result.  
P5 The EPA or method required sample preservation degrades this compound, therefore acceptable recoveries may not be achieved in sample matrix spikes.  
v1 The continuing calibration verification was above the method acceptance limit. Any detection for the analyte in the associated samples may have a high bias.  
v2 The continuing calibration verification was below the method acceptance limit. The analyte was not detected in the associated samples and the sensitivity of the instrument was verified with a reporting limit check standard.  
v3 The continuing calibration verification was below the method acceptance limit. Any detection for the analyte in the associated samples may have low bias.

## REPORT OF LABORATORY ANALYSIS

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**QUALITY CONTROL DATA CROSS REFERENCE TABLE**

Project: 18856/64183 STEADY SIMMONS  
Pace Project No.: 92565962

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92565962001	MW-1R	EPA 8011	652265	EPA 8011	652420
92565962002	MW-2	EPA 8011	652265	EPA 8011	652420
92565962003	MW-5	EPA 8011	652265	EPA 8011	652420
92565962004	MW-6	EPA 8011	652265	EPA 8011	652420
92565962005	MW-7	EPA 8011	652265	EPA 8011	652420
92565962006	MW-8	EPA 8011	652265	EPA 8011	652420
92565962007	MW-9	EPA 8011	652265	EPA 8011	652420
92565962008	MW-10	EPA 8011	652265	EPA 8011	652420
92565962009	DW-1	EPA 8011	652265	EPA 8011	652420
92565962010	DW-2	EPA 8011	652265	EPA 8011	652420
92565962011	SW-1	EPA 8011	652265	EPA 8011	652420
92565962012	SW-2	EPA 8011	652265	EPA 8011	652420
92565962013	SW-3	EPA 8011	652266	EPA 8011	652421
92565962014	DUPLICATE	EPA 8011	652266	EPA 8011	652421
92565962015	FIELD BLANK	EPA 8011	652266	EPA 8011	652421
92565962011	SW-1	EPA 8260D	652084		
92565962012	SW-2	EPA 8260D	652084		
92565962013	SW-3	EPA 8260D	652084		
92565962014	DUPLICATE	EPA 8260D	652366		
92565962001	MW-1R	EPA 8260D	652083		
92565962002	MW-2	EPA 8260D	652238		
92565962003	MW-5	EPA 8260D	652083		
92565962004	MW-6	EPA 8260D	652083		
92565962005	MW-7	EPA 8260D	652083		
92565962006	MW-8	EPA 8260D	652083		
92565962007	MW-9	EPA 8260D	652083		
92565962008	MW-10	EPA 8260D	652083		
92565962009	DW-1	EPA 8260D	652083		
92565962010	DW-2	EPA 8260D	652083		
92565962015	FIELD BLANK	EPA 8260D	652083		
92565962016	TRIP BLANK	EPA 8260D	652083		

**REPORT OF LABORATORY ANALYSIS**

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### CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields  
Billing Information:

Company: SCDFEC (M.E.C.I)

Address: 2600 Bull Street

Report To: R. Punnett

Copy To:

Email To: DUMM@PACEANALYTICAL.COM

Site Collection Info/Address: 1661 GOATS HOLLOW

State: SC

County/City: Jasper

Time Zone Collected: EST

Compliance Monitoring? [ ] Yes [ ] No

DW PWS ID #: 64183

DW Location Code:

Immediately Packed on Ice: [X] Yes [ ] No

Field Filtered (if applicable): [ ] Yes [ ] No

Analysis:

Collected By (print): CHRIS HANSEN

Collected By (signature):

Turnaround Date Required:

Rush: [ ] Same Day [ ] Next Day [ ] 2 Day [ ] 3 Day [ ] 4 Day [ ] 5 Day (Expedite Charges Apply)

Sample Disposal: [ ] Dispose as appropriate [ ] Return [ ] Archive [ ] Hold

\* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID

Matrix \*

Comp / Grab

Collected (or Composite Start) Date

Time

Res Cl

# of Ctns

Blue

Dry

None

Type of Ice Used: (Wet) [ ] (Dry) [X]

Packing Material Used: bubble bags

Received by/Company: (Signature) JOSH MALLAS

Date/Time: 10/18/21 17:40

Received by/Company: (Signature) JOSH MALLAS

Date/Time: 10/18/21 18:20

Received by/Company: (Signature)

Date/Time:

LAB ID: W0# : 92565962



92565962

Container Preservative Type \*\*

3 3

Lab Project Manager:

Number or

\*\* Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexanic, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) 1P, (U) Unpreserved, (O) Other

Analyses

Lab Profile/Line:

Lab Sample Receipt Checklist:  
Custody Seals Present/Intact Y N NA  
Custody Signatures Present Y N NA  
Collector Signature Present Y N NA  
Bottles Intact Y N NA  
Correct Bottles Y N NA  
Sufficient Volume Y N NA  
Samples Received on Ice Y N NA  
VQA - Headspace Acceptable Y N NA  
USDA Regulated Soils Y N NA  
Samples in Holding Time Y N NA  
Residual Chlorine Present Y N NA  
Cl Strips: Y N NA  
Sample pH Acceptable Y N NA  
pH Strips: Y N NA  
Sulfide Present Y N NA  
Lead Acetate Strips: Y N NA

LAB USE ONLY:  
Lab Sample # / Comments:

Q2565962									
no odor 001									
slight odor 002									
no odor 003									
004									
005									
006									
007									
organic odor 008									
no odor 009									
no odor 010									

SHORT HOLDS PRESENT (<72 hours): Y  N  NA

Lab Tracking #: 2546820

Samples received via: FEDEX UPS Client Courier

Date/Time: 10/18/21 1140

Date/Time: 10/18/21 8:00

Date/Time:

Table #: \_\_\_\_\_

Account: \_\_\_\_\_

Template: \_\_\_\_\_

Prelogin: \_\_\_\_\_

PM: \_\_\_\_\_

PB: \_\_\_\_\_

Customer Remarks / Special Conditions / Possible Hazards:

Temp Sample Temperature Info:

Temp Blank Received: Y N NA

Therm ID#: 92565962

Cooler 1 Temp Upon Receipt: 4.4 °C

Cooler 1 Therm Corr. Factor: 0.0 °C

Cooler 1 Corrected Temp: 4.4 °C

Comments:

Temp Blank Received:  Y  N  NA

HCL MeOH TSP Other

Non Conformance(s): YES / NO

Page: \_\_\_\_\_ of: \_\_\_\_\_





### CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

Company: **SCDHEC (MECD)**  
 Address: **2600 Bull Street**  
 Report To: **R. DUNN**  
 Copy To: \_\_\_\_\_

Billing information:  
 Email To: **Quinn.A@dmec.sc.gov**  
 Site Collection Info/Address: **18661 Grays Hwy**  
 State: **SC** County/City: **Jasper** Time/Zone Collected: **[ ] PT [ ] MT [ ] CT [ ] ET**

Customer Project Name/Number: **Steady Simmons**  
 Site/Facility ID #: **WST# 15556 CA # 64163**  
 Phone: \_\_\_\_\_  
 Email: \_\_\_\_\_  
 Purchased By: **Chris Housen**  
 Quote #: \_\_\_\_\_  
 Turnaround Date Required: \_\_\_\_\_

Sample Disposal:  
 Dispose as appropriate  Return  
 Archive: \_\_\_\_\_  
 Hold: \_\_\_\_\_

\* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

LAB USE C

**WIO#: 92565962**  
**PM: LNM** Due Date: **10/15/21**  
**CLIENT: 92-SCDHEC**

Container: **3** Lab Project Manager: \_\_\_\_\_

Analyses

Lab Sample #	Recept	Check List:
Q2505962		Custody Seals Present/Intact: <b>Y (NA)</b> Custody Signatures Present: <b>Y (NA)</b> Collector Signature Present: <b>Y (NA)</b> Bottles Intact: <b>Y (NA)</b> Correct Bottles: <b>Y (NA)</b> Sufficient Volume: <b>Y (NA)</b> Samples Received on Ice: <b>Y (NA)</b> VOA - Headspace Acceptable: <b>Y (NA)</b> USDA Regulated Soils: <b>Y (NA)</b> Samples in Holding Time: <b>Y (NA)</b> Residual Chlorine Present: <b>Y (NA)</b> Cl Strips: <b>Y (NA)</b> Sample pH Acceptable: <b>Y (NA)</b> pH Strips: <b>Y (NA)</b> Sulfide Present: <b>Y (NA)</b> Lead Acetate Strips: <b>Y (NA)</b>

LAB USE ONLY:  
 Lab Sample # / Comments:

Q2505962	
LDL 011	
LPL 012	
LDC 013	
DF 014	
FB 015	
TB 016	
GAC	

Customer Remarks / Special Conditions / Possible Hazards:

Lab Sample Temperature Info:  
 Temp Blank Received: **Y (NA)**  
 Therm ID#: **92565962**  
 Cooler 1 Temp Upon Receipt: **44°C**  
 Cooler 1 Therm Corr. Factor: **0.0°C**  
 Cooler 1 Corrected Temp: **44.0°C**  
 Comments:

Trip Blank Received: **Y (NA)** Other: \_\_\_\_\_  
 MeOH TSP  
 Non Conformance(s): **YES / NO**  
 Page: \_\_\_\_\_ of: \_\_\_\_\_

Customer Sample ID	Matrix *	Collected (or Composite Start)		Composite End	Res Cl	# of Ctns
		Date	Time			
Su-1	GW	10/6/21	13:00			6
Su-2			13:06			1
Su-3			13:24			1
Duplicate			14:03			2
Trip Blank			8:00			2
MEC1 GAC			14:02			

\* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Remarks / Special Conditions / Possible Hazards:

SHORT HOLDS PRESENT (<72 hours): **Y N N/A**

Lab Tracking #: **2546819**

Samples received via: **FEDEX UPS Client Courier**

Date/Time: **10/8/21 11:40** Courier: **MTJL LAB-USE ONLY**

Date/Time: **8:00** Acctnum: \_\_\_\_\_

Date/Time: \_\_\_\_\_ Prelogin: \_\_\_\_\_

Date/Time: \_\_\_\_\_ PM: \_\_\_\_\_

Date/Time: \_\_\_\_\_ PB: \_\_\_\_\_

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
<i>[Signature]</i>	10/6 11:40	Josh Nallas	10/8/21 10:21
<i>[Signature]</i>	10/8/21 18:20	<i>[Signature]</i>	

October 13, 2021

Robert Dunn  
SCDHEC  
2600 Bull St  
Columbia, SC 29201

RE: Project: 18856/64183 STEADY SIMMONS WSW  
Pace Project No.: 92565952

Dear Robert Dunn:

Enclosed are the analytical results for sample(s) received by the laboratory on October 08, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Charlotte

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Lindsey N Wooten  
lindsey.wooten@pacelabs.com  
(704)875-9092  
Project Manager

Enclosures

cc: Jeff Coleman, Midlands Environmental Consultants, Inc.  
Kyle Pudney, Midlands Environmental Consultants, Inc.  
Matt Wykel, SCDHEC



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: 18856/64183 STEADY SIMMONS WSW

Pace Project No.: 92565952

---

**Pace Analytical Services Charlotte**

9800 Kincey Ave. Ste 100, Huntersville, NC 28078

Louisiana/NELAP Certification # LA170028

North Carolina Drinking Water Certification #: 37706

North Carolina Field Services Certification #: 5342

North Carolina Wastewater Certification #: 12

South Carolina Certification #: 99006001

Florida/NELAP Certification #: E87627

Kentucky UST Certification #: 84

Virginia/VELAP Certification #: 460221

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## REPORT OF LABORATORY ANALYSIS

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### SAMPLE SUMMARY

Project: 18856/64183 STEADY SIMMONS WSW

Pace Project No.: 92565952

---

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92565952001	WSW-3	Water	10/06/21 13:15	10/08/21 11:40
92565952002	WSW-5	Water	10/06/21 13:45	10/08/21 11:40
92565952003	WSW-9	Water	10/06/21 13:47	10/08/21 11:40
92565952004	WSW-DUPLICATE	Water	10/06/21 00:00	10/08/21 11:40
92565952005	WSW-FB	Water	10/06/21 14:10	10/08/21 11:40
92565952006	WSW-TB	Water	10/06/21 08:00	10/08/21 11:40

### REPORT OF LABORATORY ANALYSIS

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**SAMPLE ANALYTE COUNT**

Project: 18856/64183 STEADY SIMMONS WSW  
Pace Project No.: 92565952

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92565952001	WSW-3	EPA 504.1	HH	2	PASI-C
		EPA 524.2	LMB	11	PASI-C
		EPA 8260D	NSCQ	11	PASI-C
92565952002	WSW-5	EPA 504.1	HH	2	PASI-C
		EPA 524.2	LMB	11	PASI-C
		EPA 8260D	NSCQ	11	PASI-C
92565952003	WSW-9	EPA 504.1	HH	2	PASI-C
		EPA 524.2	LMB	11	PASI-C
		EPA 8260D	NSCQ	11	PASI-C
92565952004	WSW-DUPLICATE	EPA 504.1	HH	2	PASI-C
		EPA 524.2	LMB	11	PASI-C
		EPA 8260D	NSCQ	11	PASI-C
92565952005	WSW-FB	EPA 504.1	HH	2	PASI-C
		EPA 524.2	LMB	11	PASI-C
		EPA 8260D	NSCQ	11	PASI-C
92565952006	WSW-TB	EPA 524.2	LMB	11	PASI-C
		EPA 8260D	NSCQ	11	PASI-C

PASI-C = Pace Analytical Services - Charlotte

**REPORT OF LABORATORY ANALYSIS**

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**SUMMARY OF DETECTION**

Project: 18856/64183 STEADY SIMMONS WSW

Pace Project No.: 92565952

Lab Sample ID	Client Sample ID					
Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92565952006	<b>WSW-TB</b>					
EPA 524.2	Toluene	0.23J	ug/L	0.50	10/11/21 16:13	C0

**REPORT OF LABORATORY ANALYSIS**

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## PROJECT NARRATIVE

Project: 18856/64183 STEADY SIMMONS WSW  
Pace Project No.: 92565952

---

**Method:** EPA 504.1  
**Description:** 504 GCS EDB and DBCP  
**Client:** SCDHEC  
**Date:** October 13, 2021

**General Information:**

5 samples were analyzed for EPA 504.1 by Pace Analytical Services Charlotte. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

**Hold Time:**

The samples were analyzed within the method required hold times with any exceptions noted below.

**Sample Preparation:**

The samples were prepared in accordance with EPA 504.1 with any exceptions noted below.

**Initial Calibrations (including MS Tune as applicable):**

All criteria were within method requirements with any exceptions noted below.

**Continuing Calibration:**

All criteria were within method requirements with any exceptions noted below.

**Surrogates:**

All surrogates were within QC limits with any exceptions noted below.

**Method Blank:**

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

**Laboratory Control Spike:**

All laboratory control spike compounds were within QC limits with any exceptions noted below.

**Matrix Spikes:**

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

**Duplicate Sample:**

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

**Additional Comments:**

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: 18856/64183 STEADY SIMMONS WSW  
Pace Project No.: 92565952

---

**Method:** EPA 524.2  
**Description:** 524.2 MSV SC List  
**Client:** SCDHEC  
**Date:** October 13, 2021

**General Information:**

6 samples were analyzed for EPA 524.2 by Pace Analytical Services Charlotte. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

**Hold Time:**

The samples were analyzed within the method required hold times with any exceptions noted below.

**Initial Calibrations (including MS Tune as applicable):**

All criteria were within method requirements with any exceptions noted below.

**Continuing Calibration:**

All criteria were within method requirements with any exceptions noted below.

**Internal Standards:**

All internal standards were within QC limits with any exceptions noted below.

**Surrogates:**

All surrogates were within QC limits with any exceptions noted below.

**Method Blank:**

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

**Laboratory Control Spike:**

All laboratory control spike compounds were within QC limits with any exceptions noted below.

**Matrix Spikes:**

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

**Additional Comments:**

Analyte Comments:

QC Batch: 652080

C0: Result confirmed by second analysis.

- WSW-TB (Lab ID: 92565952006)
- Toluene

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: 18856/64183 STEADY SIMMONS WSW  
Pace Project No.: 92565952

---

**Method:** EPA 8260D  
**Description:** 8260 MSV Low Level SC  
**Client:** SCDHEC  
**Date:** October 13, 2021

### General Information:

6 samples were analyzed for EPA 8260D by Pace Analytical Services Charlotte. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

### Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

### Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

### Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

### Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

### Surrogates:

All surrogates were within QC limits with any exceptions noted below.

### Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

### Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

### Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 652084

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 92565722003

P5: The EPA or method required sample preservation degrades this compound, therefore acceptable recoveries may not be achieved in sample matrix spikes.

- MS (Lab ID: 3419523)
  - tert-Butyl Formate
- MSD (Lab ID: 3419524)
  - tert-Butyl Formate

### Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

## REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 18856/64183 STEADY SIMMONS WSW  
Pace Project No.: 92565952

Sample: WSW-3									
Lab ID: 92565952001 Collected: 10/06/21 13:15 Received: 10/08/21 11:40 Matrix: Water									
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>504 GCS EDB and DBCP</b>									
Analytical Method: EPA 504.1 Preparation Method: EPA 504.1									
Pace Analytical Services - Charlotte									
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.0038	1	10/12/21 15:40	10/12/21 19:52	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	101	%	70-130		1	10/12/21 15:40	10/12/21 19:52	301-79-56	
<b>524.2 MSV SC List</b>									
Analytical Method: EPA 524.2									
Pace Analytical Services - Charlotte									
Benzene	ND	ug/L	0.50	0.21	1		10/11/21 16:39	71-43-2	
1,2-Dichloroethane	ND	ug/L	0.50	0.16	1		10/11/21 16:39	107-06-2	
Ethylbenzene	ND	ug/L	0.50	0.22	1		10/11/21 16:39	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	0.50	0.14	1		10/11/21 16:39	1634-04-4	
Naphthalene	ND	ug/L	0.50	0.35	1		10/11/21 16:39	91-20-3	
Toluene	ND	ug/L	0.50	0.20	1		10/11/21 16:39	108-88-3	
Xylene (Total)	ND	ug/L	0.50	0.22	1		10/11/21 16:39	1330-20-7	
m&p-Xylene	ND	ug/L	1.0	0.39	1		10/11/21 16:39	179601-23-1	
o-Xylene	ND	ug/L	0.50	0.22	1		10/11/21 16:39	95-47-6	
<b>Surrogates</b>									
1,2-Dichlorobenzene-d4 (S)	93	%	70-130		1		10/11/21 16:39	2199-69-1	
4-Bromofluorobenzene (S)	88	%	70-130		1		10/11/21 16:39	460-00-4	
<b>8260 MSV Low Level SC</b>									
Analytical Method: EPA 8260D									
Pace Analytical Services - Charlotte									
tert-Amyl Alcohol	ND	ug/L	100	36.4	1		10/12/21 07:07	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	2.7	1		10/12/21 07:07	994-05-8	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	51.9	1		10/12/21 07:07	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	26.8	1		10/12/21 07:07	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	29.4	1		10/12/21 07:07	762-75-4	
Diisopropyl ether	ND	ug/L	1.0	0.31	1		10/12/21 07:07	108-20-3	
Ethanol	ND	ug/L	200	72.2	1		10/12/21 07:07	64-17-5	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.2	1		10/12/21 07:07	637-92-3	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	98	%	70-130		1		10/12/21 07:07	460-00-4	
1,2-Dichloroethane-d4 (S)	94	%	70-130		1		10/12/21 07:07	17060-07-0	
Toluene-d8 (S)	101	%	70-130		1		10/12/21 07:07	2037-26-5	

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 18856/64183 STEADY SIMMONS WSW  
Pace Project No.: 92565952

Sample: WSW-5									
Lab ID: 92565952002 Collected: 10/06/21 13:45 Received: 10/08/21 11:40 Matrix: Water									
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>504 GCS EDB and DBCP</b>									
Analytical Method: EPA 504.1 Preparation Method: EPA 504.1									
Pace Analytical Services - Charlotte									
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	0.0036	1	10/12/21 15:40	10/12/21 20:03	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	101	%	70-130		1	10/12/21 15:40	10/12/21 20:03	301-79-56	
<b>524.2 MSV SC List</b>									
Analytical Method: EPA 524.2									
Pace Analytical Services - Charlotte									
Benzene	ND	ug/L	0.50	0.21	1		10/11/21 17:05	71-43-2	
1,2-Dichloroethane	ND	ug/L	0.50	0.16	1		10/11/21 17:05	107-06-2	
Ethylbenzene	ND	ug/L	0.50	0.22	1		10/11/21 17:05	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	0.50	0.14	1		10/11/21 17:05	1634-04-4	
Naphthalene	ND	ug/L	0.50	0.35	1		10/11/21 17:05	91-20-3	
Toluene	ND	ug/L	0.50	0.20	1		10/11/21 17:05	108-88-3	
Xylene (Total)	ND	ug/L	0.50	0.22	1		10/11/21 17:05	1330-20-7	
m&p-Xylene	ND	ug/L	1.0	0.39	1		10/11/21 17:05	179601-23-1	
o-Xylene	ND	ug/L	0.50	0.22	1		10/11/21 17:05	95-47-6	
<b>Surrogates</b>									
1,2-Dichlorobenzene-d4 (S)	92	%	70-130		1		10/11/21 17:05	2199-69-1	
4-Bromofluorobenzene (S)	86	%	70-130		1		10/11/21 17:05	460-00-4	
<b>8260 MSV Low Level SC</b>									
Analytical Method: EPA 8260D									
Pace Analytical Services - Charlotte									
tert-Amyl Alcohol	ND	ug/L	100	36.4	1		10/12/21 06:49	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	2.7	1		10/12/21 06:49	994-05-8	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	51.9	1		10/12/21 06:49	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	26.8	1		10/12/21 06:49	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	29.4	1		10/12/21 06:49	762-75-4	
Diisopropyl ether	ND	ug/L	1.0	0.31	1		10/12/21 06:49	108-20-3	
Ethanol	ND	ug/L	200	72.2	1		10/12/21 06:49	64-17-5	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.2	1		10/12/21 06:49	637-92-3	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	99	%	70-130		1		10/12/21 06:49	460-00-4	
1,2-Dichloroethane-d4 (S)	93	%	70-130		1		10/12/21 06:49	17060-07-0	
Toluene-d8 (S)	99	%	70-130		1		10/12/21 06:49	2037-26-5	

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### ANALYTICAL RESULTS

Project: 18856/64183 STEADY SIMMONS WSW  
Pace Project No.: 92565952

Sample: WSW-9									
Lab ID: 92565952003 Collected: 10/06/21 13:47 Received: 10/08/21 11:40 Matrix: Water									
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>504 GCS EDB and DBCP</b>									
Analytical Method: EPA 504.1 Preparation Method: EPA 504.1									
Pace Analytical Services - Charlotte									
1,2-Dibromoethane (EDB)	ND	ug/L	0.021	0.0038	1	10/12/21 15:40	10/12/21 20:14	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	98	%	70-130		1	10/12/21 15:40	10/12/21 20:14	301-79-56	
<b>524.2 MSV SC List</b>									
Analytical Method: EPA 524.2									
Pace Analytical Services - Charlotte									
Benzene	ND	ug/L	0.50	0.21	1		10/11/21 17:30	71-43-2	
1,2-Dichloroethane	ND	ug/L	0.50	0.16	1		10/11/21 17:30	107-06-2	
Ethylbenzene	ND	ug/L	0.50	0.22	1		10/11/21 17:30	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	0.50	0.14	1		10/11/21 17:30	1634-04-4	
Naphthalene	ND	ug/L	0.50	0.35	1		10/11/21 17:30	91-20-3	
Toluene	ND	ug/L	0.50	0.20	1		10/11/21 17:30	108-88-3	
Xylene (Total)	ND	ug/L	0.50	0.22	1		10/11/21 17:30	1330-20-7	
m&p-Xylene	ND	ug/L	1.0	0.39	1		10/11/21 17:30	179601-23-1	
o-Xylene	ND	ug/L	0.50	0.22	1		10/11/21 17:30	95-47-6	
<b>Surrogates</b>									
1,2-Dichlorobenzene-d4 (S)	92	%	70-130		1		10/11/21 17:30	2199-69-1	
4-Bromofluorobenzene (S)	86	%	70-130		1		10/11/21 17:30	460-00-4	
<b>8260 MSV Low Level SC</b>									
Analytical Method: EPA 8260D									
Pace Analytical Services - Charlotte									
tert-Amyl Alcohol	ND	ug/L	100	36.4	1		10/12/21 06:12	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	2.7	1		10/12/21 06:12	994-05-8	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	51.9	1		10/12/21 06:12	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	26.8	1		10/12/21 06:12	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	29.4	1		10/12/21 06:12	762-75-4	
Diisopropyl ether	ND	ug/L	1.0	0.31	1		10/12/21 06:12	108-20-3	
Ethanol	ND	ug/L	200	72.2	1		10/12/21 06:12	64-17-5	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.2	1		10/12/21 06:12	637-92-3	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	99	%	70-130		1		10/12/21 06:12	460-00-4	
1,2-Dichloroethane-d4 (S)	92	%	70-130		1		10/12/21 06:12	17060-07-0	
Toluene-d8 (S)	98	%	70-130		1		10/12/21 06:12	2037-26-5	

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### ANALYTICAL RESULTS

Project: 18856/64183 STEADY SIMMONS WSW  
Pace Project No.: 92565952

Sample: WSW-DUPLICATE      Lab ID: 92565952004      Collected: 10/06/21 00:00      Received: 10/08/21 11:40      Matrix: Water									
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>504 GCS EDB and DBCP</b>									
Analytical Method: EPA 504.1    Preparation Method: EPA 504.1 Pace Analytical Services - Charlotte									
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.0037	1	10/12/21 15:40	10/12/21 20:24	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	98	%	70-130		1	10/12/21 15:40	10/12/21 20:24	301-79-56	
<b>524.2 MSV SC List</b>									
Analytical Method: EPA 524.2 Pace Analytical Services - Charlotte									
Benzene	ND	ug/L	0.50	0.21	1		10/11/21 17:56	71-43-2	
1,2-Dichloroethane	ND	ug/L	0.50	0.16	1		10/11/21 17:56	107-06-2	
Ethylbenzene	ND	ug/L	0.50	0.22	1		10/11/21 17:56	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	0.50	0.14	1		10/11/21 17:56	1634-04-4	
Naphthalene	ND	ug/L	0.50	0.35	1		10/11/21 17:56	91-20-3	
Toluene	ND	ug/L	0.50	0.20	1		10/11/21 17:56	108-88-3	
Xylene (Total)	ND	ug/L	0.50	0.22	1		10/11/21 17:56	1330-20-7	
m&p-Xylene	ND	ug/L	1.0	0.39	1		10/11/21 17:56	179601-23-1	
o-Xylene	ND	ug/L	0.50	0.22	1		10/11/21 17:56	95-47-6	
<b>Surrogates</b>									
1,2-Dichlorobenzene-d4 (S)	92	%	70-130		1		10/11/21 17:56	2199-69-1	
4-Bromofluorobenzene (S)	87	%	70-130		1		10/11/21 17:56	460-00-4	
<b>8260 MSV Low Level SC</b>									
Analytical Method: EPA 8260D Pace Analytical Services - Charlotte									
tert-Amyl Alcohol	ND	ug/L	100	36.4	1		10/12/21 06:31	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	2.7	1		10/12/21 06:31	994-05-8	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	51.9	1		10/12/21 06:31	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	26.8	1		10/12/21 06:31	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	29.4	1		10/12/21 06:31	762-75-4	
Diisopropyl ether	ND	ug/L	1.0	0.31	1		10/12/21 06:31	108-20-3	
Ethanol	ND	ug/L	200	72.2	1		10/12/21 06:31	64-17-5	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.2	1		10/12/21 06:31	637-92-3	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	100	%	70-130		1		10/12/21 06:31	460-00-4	
1,2-Dichloroethane-d4 (S)	94	%	70-130		1		10/12/21 06:31	17060-07-0	
Toluene-d8 (S)	100	%	70-130		1		10/12/21 06:31	2037-26-5	

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### ANALYTICAL RESULTS

Project: 18856/64183 STEADY SIMMONS WSW  
Pace Project No.: 92565952

Sample: WSW-FB      Lab ID: 92565952005      Collected: 10/06/21 14:10      Received: 10/08/21 11:40      Matrix: Water									
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>504 GCS EDB and DBCP</b>									
Analytical Method: EPA 504.1    Preparation Method: EPA 504.1 Pace Analytical Services - Charlotte									
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.0038	1	10/12/21 15:40	10/12/21 20:35	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	104	%	70-130		1	10/12/21 15:40	10/12/21 20:35	301-79-56	
<b>524.2 MSV SC List</b>									
Analytical Method: EPA 524.2 Pace Analytical Services - Charlotte									
Benzene	ND	ug/L	0.50	0.21	1		10/11/21 15:46	71-43-2	
1,2-Dichloroethane	ND	ug/L	0.50	0.16	1		10/11/21 15:46	107-06-2	
Ethylbenzene	ND	ug/L	0.50	0.22	1		10/11/21 15:46	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	0.50	0.14	1		10/11/21 15:46	1634-04-4	
Naphthalene	ND	ug/L	0.50	0.35	1		10/11/21 15:46	91-20-3	
Toluene	ND	ug/L	0.50	0.20	1		10/11/21 15:46	108-88-3	
Xylene (Total)	ND	ug/L	0.50	0.22	1		10/11/21 15:46	1330-20-7	
m&p-Xylene	ND	ug/L	1.0	0.39	1		10/11/21 15:46	179601-23-1	
o-Xylene	ND	ug/L	0.50	0.22	1		10/11/21 15:46	95-47-6	
<b>Surrogates</b>									
1,2-Dichlorobenzene-d4 (S)	92	%	70-130		1		10/11/21 15:46	2199-69-1	
4-Bromofluorobenzene (S)	88	%	70-130		1		10/11/21 15:46	460-00-4	
<b>8260 MSV Low Level SC</b>									
Analytical Method: EPA 8260D Pace Analytical Services - Charlotte									
tert-Amyl Alcohol	ND	ug/L	100	36.4	1		10/12/21 05:00	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	2.7	1		10/12/21 05:00	994-05-8	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	51.9	1		10/12/21 05:00	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	26.8	1		10/12/21 05:00	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	29.4	1		10/12/21 05:00	762-75-4	
Diisopropyl ether	ND	ug/L	1.0	0.31	1		10/12/21 05:00	108-20-3	
Ethanol	ND	ug/L	200	72.2	1		10/12/21 05:00	64-17-5	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.2	1		10/12/21 05:00	637-92-3	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	97	%	70-130		1		10/12/21 05:00	460-00-4	
1,2-Dichloroethane-d4 (S)	92	%	70-130		1		10/12/21 05:00	17060-07-0	
Toluene-d8 (S)	100	%	70-130		1		10/12/21 05:00	2037-26-5	

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### ANALYTICAL RESULTS

Project: 18856/64183 STEADY SIMMONS WSW  
Pace Project No.: 92565952

Sample: WSW-TB      Lab ID: 92565952006      Collected: 10/06/21 08:00      Received: 10/08/21 11:40      Matrix: Water									
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>524.2 MSV SC List</b>									
Analytical Method: EPA 524.2									
Pace Analytical Services - Charlotte									
Benzene	ND	ug/L	0.50	0.21	1		10/11/21 16:13	71-43-2	
1,2-Dichloroethane	ND	ug/L	0.50	0.16	1		10/11/21 16:13	107-06-2	
Ethylbenzene	ND	ug/L	0.50	0.22	1		10/11/21 16:13	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	0.50	0.14	1		10/11/21 16:13	1634-04-4	
Naphthalene	ND	ug/L	0.50	0.35	1		10/11/21 16:13	91-20-3	
Toluene	0.23J	ug/L	0.50	0.20	1		10/11/21 16:13	108-88-3	CO
Xylene (Total)	ND	ug/L	0.50	0.22	1		10/11/21 16:13	1330-20-7	
m&p-Xylene	ND	ug/L	1.0	0.39	1		10/11/21 16:13	179601-23-1	
o-Xylene	ND	ug/L	0.50	0.22	1		10/11/21 16:13	95-47-6	
<b>Surrogates</b>									
1,2-Dichlorobenzene-d4 (S)	93	%	70-130		1		10/11/21 16:13	2199-69-1	
4-Bromofluorobenzene (S)	88	%	70-130		1		10/11/21 16:13	460-00-4	
<b>8260 MSV Low Level SC</b>									
Analytical Method: EPA 8260D									
Pace Analytical Services - Charlotte									
tert-Amyl Alcohol	ND	ug/L	100	36.4	1		10/12/21 04:42	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	2.7	1		10/12/21 04:42	994-05-8	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	51.9	1		10/12/21 04:42	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	26.8	1		10/12/21 04:42	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	29.4	1		10/12/21 04:42	762-75-4	
Diisopropyl ether	ND	ug/L	1.0	0.31	1		10/12/21 04:42	108-20-3	
Ethanol	ND	ug/L	200	72.2	1		10/12/21 04:42	64-17-5	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.2	1		10/12/21 04:42	637-92-3	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	97	%	70-130		1		10/12/21 04:42	460-00-4	
1,2-Dichloroethane-d4 (S)	93	%	70-130		1		10/12/21 04:42	17060-07-0	
Toluene-d8 (S)	101	%	70-130		1		10/12/21 04:42	2037-26-5	

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**QUALITY CONTROL DATA**

Project: 18856/64183 STEADY SIMMONS WSW  
Pace Project No.: 92565952

QC Batch:	652080	Analysis Method:	EPA 524.2
QC Batch Method:	EPA 524.2	Analysis Description:	524.2 MSV
		Laboratory:	Pace Analytical Services - Charlotte

Associated Lab Samples: 92565952001, 92565952002, 92565952003, 92565952004, 92565952005, 92565952006

METHOD BLANK: 3419478 Matrix: Water  
Associated Lab Samples: 92565952001, 92565952002, 92565952003, 92565952004, 92565952005, 92565952006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	0.50	0.16	10/11/21 15:20	
Benzene	ug/L	ND	0.50	0.21	10/11/21 15:20	
Ethylbenzene	ug/L	ND	0.50	0.22	10/11/21 15:20	
m&p-Xylene	ug/L	ND	1.0	0.39	10/11/21 15:20	
Methyl-tert-butyl ether	ug/L	ND	0.50	0.14	10/11/21 15:20	
Naphthalene	ug/L	ND	0.50	0.35	10/11/21 15:20	
o-Xylene	ug/L	ND	0.50	0.22	10/11/21 15:20	
Toluene	ug/L	ND	0.50	0.20	10/11/21 15:20	
Xylene (Total)	ug/L	ND	0.50	0.22	10/11/21 15:20	
1,2-Dichlorobenzene-d4 (S)	%	92	70-130		10/11/21 15:20	
4-Bromofluorobenzene (S)	%	89	70-130		10/11/21 15:20	

LABORATORY CONTROL SAMPLE: 3419479

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	20	20.0	100	70-130	
Benzene	ug/L	20	20.3	101	70-130	
Ethylbenzene	ug/L	20	20.2	101	70-130	
m&p-Xylene	ug/L	40	40.7	102	70-130	
Methyl-tert-butyl ether	ug/L	20	17.2	86	70-130	
Naphthalene	ug/L	20	19.0	95	70-130	
o-Xylene	ug/L	20	20.3	101	70-130	
Toluene	ug/L	20	20.1	101	70-130	
Xylene (Total)	ug/L	60	61.0	102		
1,2-Dichlorobenzene-d4 (S)	%			104	70-130	
4-Bromofluorobenzene (S)	%			103	70-130	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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**QUALITY CONTROL DATA**

Project: 18856/64183 STEADY SIMMONS WSW  
Pace Project No.: 92565952

QC Batch:	652084	Analysis Method:	EPA 8260D
QC Batch Method:	EPA 8260D	Analysis Description:	8260 MSV Low Level SC
		Laboratory:	Pace Analytical Services - Charlotte

Associated Lab Samples: 92565952001, 92565952002, 92565952003, 92565952004, 92565952005, 92565952006

METHOD BLANK: 3419521 Matrix: Water  
Associated Lab Samples: 92565952001, 92565952002, 92565952003, 92565952004, 92565952005, 92565952006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
3,3-Dimethyl-1-Butanol	ug/L	ND	100	51.9	10/12/21 03:29	
Diisopropyl ether	ug/L	ND	1.0	0.31	10/12/21 03:29	
Ethanol	ug/L	ND	200	72.2	10/12/21 03:29	
Ethyl-tert-butyl ether	ug/L	ND	10.0	3.2	10/12/21 03:29	
tert-Amyl Alcohol	ug/L	ND	100	36.4	10/12/21 03:29	
tert-Amylmethyl ether	ug/L	ND	10.0	2.7	10/12/21 03:29	
tert-Butyl Alcohol	ug/L	ND	100	26.8	10/12/21 03:29	
tert-Butyl Formate	ug/L	ND	50.0	29.4	10/12/21 03:29	
1,2-Dichloroethane-d4 (S)	%	91	70-130		10/12/21 03:29	
4-Bromofluorobenzene (S)	%	100	70-130		10/12/21 03:29	
Toluene-d8 (S)	%	100	70-130		10/12/21 03:29	

LABORATORY CONTROL SAMPLE: 3419522

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
3,3-Dimethyl-1-Butanol	ug/L	1000	1100	110	70-130	
Diisopropyl ether	ug/L	50	49.6	99	70-130	
Ethanol	ug/L	2000	1900	95	70-130	
Ethyl-tert-butyl ether	ug/L	100	103	103	70-130	
tert-Amyl Alcohol	ug/L	1000	1060	106	70-130	
tert-Amylmethyl ether	ug/L	100	106	106	70-130	
tert-Butyl Alcohol	ug/L	500	495	99	70-130	
tert-Butyl Formate	ug/L	400	403	101	70-130	
1,2-Dichloroethane-d4 (S)	%			87	70-130	
4-Bromofluorobenzene (S)	%			100	70-130	
Toluene-d8 (S)	%			97	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3419523 3419524

Parameter	Units	MS 92565722003		MSD 3419524		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		Result	Spike Conc.	Spike Conc.	Result							
3,3-Dimethyl-1-Butanol	ug/L	ND	2000	2000	2040	2010	102	101	39-157	2	30	
Diisopropyl ether	ug/L	ND	100	100	113	113	102	102	63-144	0	30	
Ethanol	ug/L	ND	4000	4000	4430	4380	111	110	39-176	1	30	
Ethyl-tert-butyl ether	ug/L	ND	200	200	209	210	104	105	66-137	1	30	
tert-Amyl Alcohol	ug/L	6960	2000	2000	9730	9620	138	133	54-153	1	30	
tert-Amylmethyl ether	ug/L	ND	200	200	217	217	109	108	69-139	0	30	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

**REPORT OF LABORATORY ANALYSIS**

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**QUALITY CONTROL DATA**

Project: 18856/64183 STEADY SIMMONS WSW  
Pace Project No.: 92565952

Parameter	Units	92565722003		3419523		3419524		% Rec	% Rec	% Rec	Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS Result							
tert-Butyl Alcohol	ug/L	ND	1000	1000	1860	1870	149	150	43-188	1	30			
tert-Butyl Formate	ug/L	ND	800	800	ND	ND	7	7	10-170		30	P5		
1,2-Dichloroethane-d4 (S)	%						88	88	70-130					
4-Bromofluorobenzene (S)	%						98	98	70-130					
Toluene-d8 (S)	%						97	98	70-130					

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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**QUALITY CONTROL DATA**

Project: 18856/64183 STEADY SIMMONS WSW  
Pace Project No.: 92565952

QC Batch: 652264 Analysis Method: EPA 504.1  
QC Batch Method: EPA 504.1 Analysis Description: GCS 504 EDB DBCP  
Laboratory: Pace Analytical Services - Charlotte  
Associated Lab Samples: 92565952001, 92565952002, 92565952003, 92565952004, 92565952005

METHOD BLANK: 3420328 Matrix: Water  
Associated Lab Samples: 92565952001, 92565952002, 92565952003, 92565952004, 92565952005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	0.021	0.0039	10/12/21 17:36	
1-Chloro-2-bromopropane (S)	%	89	70-130		10/12/21 17:36	

LABORATORY CONTROL SAMPLE & LCSD: 3420329 3420330

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	0.26	0.28	0.27	106	106	70-130	2	20	
1-Chloro-2-bromopropane (S)	%				103	104	70-130			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3420331 3420332

Parameter	Units	92565703001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dibromoethane (EDB)	ug/L	ND	0.26	0.26	0.28	0.29	108	110	65-135	2	20	
1-Chloro-2-bromopropane (S)	%						105	105	70-130			

SAMPLE DUPLICATE: 3420333

Parameter	Units	92565703002 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	ND		20	
1-Chloro-2-bromopropane (S)	%	101	104			

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## QUALIFIERS

Project: 18856/64183 STEADY SIMMONS WSW  
Pace Project No.: 92565952

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### DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.  
ND - Not Detected at or above adjusted reporting limit.  
TNTC - Too Numerous To Count  
J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.  
MDL - Adjusted Method Detection Limit.  
PQL - Practical Quantitation Limit.  
RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.  
S - Surrogate  
1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.  
Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.  
LCS(D) - Laboratory Control Sample (Duplicate)  
MS(D) - Matrix Spike (Duplicate)  
DUP - Sample Duplicate  
RPD - Relative Percent Difference  
NC - Not Calculable.  
SG - Silica Gel - Clean-Up  
U - Indicates the compound was analyzed for, but not detected.  
Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.  
A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.  
N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.  
Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.  
Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.  
TNI - The NELAC Institute.

### ANALYTE QUALIFIERS

C0 Result confirmed by second analysis.  
P5 The EPA or method required sample preservation degrades this compound, therefore acceptable recoveries may not be achieved in sample matrix spikes.

## REPORT OF LABORATORY ANALYSIS

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**QUALITY CONTROL DATA CROSS REFERENCE TABLE**

Project: 18856/64183 STEADY SIMMONS WSW  
Pace Project No.: 92565952

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92565952001	WSW-3	EPA 504.1	652264	EPA 504.1	652419
92565952002	WSW-5	EPA 504.1	652264	EPA 504.1	652419
92565952003	WSW-9	EPA 504.1	652264	EPA 504.1	652419
92565952004	WSW-DUPLICATE	EPA 504.1	652264	EPA 504.1	652419
92565952005	WSW-FB	EPA 504.1	652264	EPA 504.1	652419
92565952001	WSW-3	EPA 524.2	652080		
92565952002	WSW-5	EPA 524.2	652080		
92565952003	WSW-9	EPA 524.2	652080		
92565952004	WSW-DUPLICATE	EPA 524.2	652080		
92565952005	WSW-FB	EPA 524.2	652080		
92565952006	WSW-TB	EPA 524.2	652080		
92565952001	WSW-3	EPA 8260D	652084		
92565952002	WSW-5	EPA 8260D	652084		
92565952003	WSW-9	EPA 8260D	652084		
92565952004	WSW-DUPLICATE	EPA 8260D	652084		
92565952005	WSW-FB	EPA 8260D	652084		
92565952006	WSW-TB	EPA 8260D	652084		

**REPORT OF LABORATORY ANALYSIS**

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### CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields  
Billing Information:

Company:  
SCDHEC

Address:  
2600 Paul Street

Report To:  
E. Dunn

Copy To:

Email To:  
Dunnec@dhc.sc.gov

Site Collection Info/Address:  
1001 Gays Hwy

State: County/City:

Time Zone Collected:

PT | MT | CT | ET

Customer Project Name/Number:  
Steady Simmons

Phone:  
Site/Facility ID #:

Collect By (print):  
Purchase Order #:

Collect By (signature):  
Turnaround Date Required:

Sample Disposal:  
Compliance Monitoring?

Turnaround Date Required:  
DW Location Code:

Rush:  
Field Filtered (if applicable):

Matrix \*  
Analysis:

Customer Sample ID  
Res # of Ctns

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LAB U

W0# : 92565952



92565952

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Preservative types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other

#### Analyses

Lab Profile/Line:	Lab Sample Receipt CheckList:
524.2 (BREM, 1.2 PCA)	Custody Seals Present/Intact Y (X) NA
	Custody Signatures Present Y (X) NA
	Collector Signature Present Y (X) NA
	Bottles Intact Y (X) NA
	Correct Bottles Y (X) NA
	Sufficient Volume Y (X) NA
	Samples Received on Ice Y (X) NA
	VOA - Headspace Acceptable Y (X) NA
	USDA Regulated Soils Y (X) NA
	Samples in Holding Time Y (X) NA
	Residual Chlorine Present Y (X) NA
	Cl Strips: Y (X) NA
	Sample pH Acceptable Y (X) NA
	pH Strips: Y (X) NA
	Sulfide Present Y (X) NA
	Lead Acetate Strips: Y (X) NA

LAB USE ONLY:  
Lab Sample # / Comments:

92565952  
FB 0.05  
TB 0.02

Customer Remarks / Special Conditions / Possible Hazards:

Type of Ice Used: (Wet) Blue Dry None

Packing Material Used: BT

Lab Tracking #: 2546818

SHORT HOLDS PRESENT (<72 hours): Y N N/A

Samples received via: FEDEX UPS Client Courier

Date/Time: 10/8/12 11:40

Date/Time: 10/8/12 1820

Date/Time: 10/8/12 1820

Date/Time: 10/8/12 1820

Date/Time: 10/8/12 1820

Date/Time: 10/8/12 1820

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Date/Time: 10/8/12 1820

Date/Time: 10/8/12 1820

Temp Blank Received: Y (X) NA

Therm ID#: 92565952

Cooler 1 Temp Upon Receipt: 4.0 OC

Cooler 1 Therm Corr. Factor: 0.0 OC

Cooler 1 Corrected Temp: 4.0 OC

Comments:

Trip Blank Received: 0 N NA

HCL MeOH TSP Other

Non Conformance(s):

YES / NO

Page: of:

Received by/Company: (Signature)  
Josh Mallas

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Received by/Company: (Signature)  
Josh Mallas

Document Name: Sample Condition Upon Receipt(SCUR)	Document No.:	
Document Revised: October 28, 2020 Page 2 of 2	Issuing Authority: Face Carolinas Quality Office	

\*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.  
 Exceptions: VOA, Coliform, TOC, Oil and Grease, DRD/8015 (water) DOC, LTHg  
**\*\*Bottom half of box is to list number of bottles**


Project #
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Item#	Item	1	2	3	4	5	6	7	8	9	10	11	12
	BP4U-125 mL Plastic Unpreserved (N/A) (C1)												
	BP3U-250 mL Plastic Unpreserved (N/A)												
	BP2U-500 mL Plastic Unpreserved (N/A)												
	BP1U-1 liter Plastic Unpreserved (N/A)												
	BP4S-125 mL Plastic H2SO4 (pH < 2) (C1-)												
	BP3N-250 mL plastic HNO3 (pH < 2)												
	BP4Z-125 mL Plastic ZN Acetate & NaOH (-9)												
	BP4C-125 mL Plastic NaOH (pH > 12) (C1)												
	WGFW-wide-mouthed Glass Jar Unpreserved												
	AG1U-1 liter Amber Unpreserved (N/A) (C1-)												
	AG1H-1 liter Amber HCl (pH < 2)												
	AG3U-250 mL Amber Unpreserved (N/A) (C1-)												
	AG1S-1 liter Amber H2SO4 (pH < 2)												
	AG3S-250 mL Amber H2SO4 (pH < 2)												
	AG3M(DGSA)-250 mL Amber MHACI (N/A)(C1-)												
	DG9H-40 mL VOA HCl (N/A)	6											
	VG9T-40 mL VOA Na2SO3 (N/A)	6											
	VG9U-40 mL VOA Imp (N/A)	6											
	DG9P-40 mL VOA HAP04 (N/A)												
	VOAK (6 vials per kit)-5095 kit (N/A)												
	V/GK (3 vials per kit)-VPE/Gas kit (N/A)												
	SP3T-125 mL Sterile Plastic (N/A - lab)												
	SP2T-250 mL Sterile Plastic (N/A - lab)												
	BP3A-250 mL Plastic (NH3)2SO4 (9.3-9.7)												
	AG0U-100 mL Amber Unpreserved vials (N/A)												
	VSGU-20 mL Scintillation vials (N/A)												
	DG9U-40 mL Amber Unpreserved vials (N/A)												

Sample ID	Type of Preservation	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

pH Adjustment Log for Preserved Samples

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office. (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.

	Document Name: Sample Condition Upon Receipt (SCUR)
	Document No.: F-CAR-CS-033-Rev.07
Document Revised: October 28, 2020 Page 2 of 2	Issuing Authority: Pace Carolinas Quality Office

\*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.  
 Exceptions: VOA, Coliform, TOC, Oil and Grease, DR0/8015 (water) DOC, LTHG  
 \*\*Bottom half of box is to list number of bottles

Item#	1	2	3	4	5	6	7	8	9	10	11	12
BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)												
BP3U-250 mL Plastic Unpreserved (N/A)												
BP2U-500 mL Plastic Unpreserved (N/A)												
BP1U-1 liter Plastic Unpreserved (N/A)												
BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)												
BP3M-250 mL plastic HNO3 (pH < 2)												
BP4Z-125 mL Plastic ZN Acetate & NaOH (-9)												
BP4C-125 mL Plastic NaOH (pH > 12) (Cl-)												
WGFW-Wide-mouthed Glass Jar Unpreserved												
AG1U-1 liter Amber Unpreserved (N/A) (Cl-)												
AG1H-1 liter Amber HCl (pH < 2)												
AG3U-250 mL Amber Unpreserved (N/A) (Cl-)												
AG1S-1 liter Amber H2SO4 (pH < 2)												
AG3S-250 mL Amber H2SO4 (pH < 2)												
AG3A(DG3A)-250 mL Amber NH4Cl (N/A)(Cl-)												
DG9H-40 mL VOA HCl (N/A)	6											
VG9T-40 mL VOA Na2S2O3 (N/A)	3											
VG9U-40 mL VOA Imp (N/A)												
DG9P-40 mL VOA HAPo4 (N/A)												
VOAK (6 vials per kit)-50B5 kit (N/A)												
V/GK (3 vials per kit)-V/P/Gas kit (N/A)												
SPST-125 mL Sterile Plastic (N/A - lab)												
SP2T-250 mL Sterile Plastic (N/A - lab)												
BP3A-250 mL Plastic (NH3)2SO4 (9.3-9.7)												
AG0U-100 mL Amber Unpreserved vials (N/A)												
VSGU-20 mL Scintillation vials (N/A)												
DG9U-40 mL Amber Unpreserved vials (N/A)												

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

**pH Adjustment Log for Preserved Samples**

Note: Whenever there is a discrepancy affecting North Carolina compliance samples-a copy of this form will be sent to the North Carolina DEHR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.



Sample Receiving Non-Conformance Form (NCF)

Date: \_\_\_\_\_  
 Client: \_\_\_\_\_  
 Evaluated by: \_\_\_\_\_  
 Affix Workorder/Login Label Here or List Pace  
 Workorder Number or MTL Log-In Number  
 Here

1. If Chain-of-Custody (COC) is not received: contact client and if necessary, fill out a COC and indicate that it was filled out by lab personnel. Note issues on this NCF.

2. If COC is incomplete, check applicable issues below and add details where appropriate:

Collection date/time missing or incorrect	Analyses or analytes: missing or clarification needed	Samples listed on COC do not match samples received (missing, additional, etc.)
Sample IDs on COC do not match sample labels	Required trip blanks were not received	Required signatures are missing

Comments/Details/Other issues not listed above:

3. Sample integrity issues: check applicable issues below and add details where appropriate:

Samples: Past holding time	Samples: Condition needs to be brought to lab personnel's attention (details below)	Preservation: Improper
Samples: Not field filtered	Containers: Broken or compromised	Temperature: not within acceptance criteria (typically 0-6C)
Samples: Insufficient volume received	Containers: Incorrect	Temperature: Samples arrived frozen
Samples: Cooler damaged or compromised	Custody Seals: Missing or compromised on samples, trip blanks or coolers	Vials received with improper headspace
Samples: contain chlorine or sulfides	Packing Material: Insufficient/Improper	Other:

Comments/Details: Head Space present in V99T for Sample W5W-9 and DegHxal for Sample W5W-DUP.

4. If Samples not preserved properly and Sample Receiving adjusts pH, add details below:

Sample ID:	Date/Time:	Amount/type pres added:
Preserved by:	Initial and Final pH:	Lot # of pres added:
Sample ID:	Date/Time:	Amount/type pres added:
Preserved by:	Initial and Final pH:	Lot # of pres added:
Sample ID:	Date/Time:	Amount/type pres added:
Preserved by:	Initial and Final pH:	Lot # of pres added:

5. Client Contact: If client is contacted for any issue listed above, fill in details below:

Client:	Contacted per:
PM Initials:	Date/Time:

Client Comments/Instructions:

October 14, 2021

Mr. Bryan Shane  
Midlands Environmental  
PO Box 854  
Lexington, SC 29071

RE: Project: STEADY SIMMONS GAC  
Pace Project No.: 92565958

Dear Mr. Shane:

Enclosed are the analytical results for sample(s) received by the laboratory on October 08, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Charlotte

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Lindsey N Wooten  
lindsey.wooten@pacelabs.com  
(704)875-9092  
Project Manager

Enclosures

cc: Mr. Jeff Coleman, Midlands Environmental  
Mr. Kyle Pudney, Midlands Environmental



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: STEADY SIMMONS GAC

Pace Project No.: 92565958

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**Pace Analytical Services Charlotte**

9800 Kincey Ave. Ste 100, Huntersville, NC 28078

Louisiana/NELAP Certification # LA170028

North Carolina Drinking Water Certification #: 37706

North Carolina Field Services Certification #: 5342

North Carolina Wastewater Certification #: 12

South Carolina Certification #: 99006001

Florida/NELAP Certification #: E87627

Kentucky UST Certification #: 84

Virginia/VELAP Certification #: 460221

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## REPORT OF LABORATORY ANALYSIS

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### SAMPLE SUMMARY

Project: STEADY SIMMONS GAC  
Pace Project No.: 92565958

---

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92565958001	MECI GAC	Water	10/06/21 14:02	10/08/21 11:40

### REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: STEADY SIMMONS GAC  
Pace Project No.: 92565958

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92565958001	MECI GAC	EPA 8011	HH	2	PASI-C
		EPA 8260D	BSH	20	PASI-C

PASI-C = Pace Analytical Services - Charlotte

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: STEADY SIMMONS GAC  
Pace Project No.: 92565958

Sample: MECI GAC      Lab ID: 92565958001      Collected: 10/06/21 14:02      Received: 10/08/21 11:40      Matrix: Water									
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8011 GCS EDB and DBCP</b>									
Analytical Method: EPA 8011      Preparation Method: EPA 8011									
Pace Analytical Services - Charlotte									
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.0081	1	10/12/21 15:38	10/12/21 23:13	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	99	%	60-140		1	10/12/21 15:38	10/12/21 23:13	301-79-56	
<b>8260 MSV</b>									
Analytical Method: EPA 8260D									
Pace Analytical Services - Charlotte									
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		10/11/21 17:34	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		10/11/21 17:34	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		10/11/21 17:34	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		10/11/21 17:34	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	91.0	1		10/11/21 17:34	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		10/11/21 17:34	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		10/11/21 17:34	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	3.5	1		10/11/21 17:34	108-20-3	
Ethanol	ND	ug/L	200	144	1		10/11/21 17:34	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.8	1		10/11/21 17:34	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		10/11/21 17:34	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		10/11/21 17:34	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.1	1		10/11/21 17:34	91-20-3	
Toluene	ND	ug/L	5.0	2.0	1		10/11/21 17:34	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		10/11/21 17:34	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	4.1	1		10/11/21 17:34	179601-23-1	
o-Xylene	ND	ug/L	5.0	2.0	1		10/11/21 17:34	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	94	%	70-130		1		10/11/21 17:34	460-00-4	
1,2-Dichloroethane-d4 (S)	86	%	70-130		1		10/11/21 17:34	17060-07-0	
Toluene-d8 (S)	105	%	70-130		1		10/11/21 17:34	2037-26-5	

### REPORT OF LABORATORY ANALYSIS

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**QUALITY CONTROL DATA**

Project: STEADY SIMMONS GAC  
Pace Project No.: 92565958

QC Batch: 652083 Analysis Method: EPA 8260D  
QC Batch Method: EPA 8260D Analysis Description: 8260 MSV SC  
Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92565958001

METHOD BLANK: 3419498 Matrix: Water  
Associated Lab Samples: 92565958001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	5.0	2.1	10/11/21 12:11	
3,3-Dimethyl-1-Butanol	ug/L	ND	100	53.9	10/11/21 12:11	
Benzene	ug/L	ND	5.0	1.7	10/11/21 12:11	
Diisopropyl ether	ug/L	ND	5.0	3.5	10/11/21 12:11	
Ethanol	ug/L	ND	200	144	10/11/21 12:11	
Ethyl-tert-butyl ether	ug/L	ND	10.0	8.5	10/11/21 12:11	
Ethylbenzene	ug/L	ND	5.0	1.8	10/11/21 12:11	
m&p-Xylene	ug/L	ND	10.0	4.1	10/11/21 12:11	
Methyl-tert-butyl ether	ug/L	ND	5.0	3.1	10/11/21 12:11	
Naphthalene	ug/L	ND	5.0	2.1	10/11/21 12:11	
o-Xylene	ug/L	ND	5.0	2.0	10/11/21 12:11	
tert-Amyl Alcohol	ug/L	ND	100	65.6	10/11/21 12:11	
tert-Amylmethyl ether	ug/L	ND	10.0	3.0	10/11/21 12:11	
tert-Butyl Alcohol	ug/L	ND	100	91.0	10/11/21 12:11	
tert-Butyl Formate	ug/L	ND	50.0	24.1	10/11/21 12:11	
Toluene	ug/L	ND	5.0	2.0	10/11/21 12:11	
Xylene (Total)	ug/L	ND	5.0	5.0	10/11/21 12:11	
1,2-Dichloroethane-d4 (S)	%	87	70-130		10/11/21 12:11	
4-Bromofluorobenzene (S)	%	100	70-130		10/11/21 12:11	
Toluene-d8 (S)	%	105	70-130		10/11/21 12:11	

LABORATORY CONTROL SAMPLE: 3419499

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	50	48.0	96	70-130	
3,3-Dimethyl-1-Butanol	ug/L	1000	1060	106	70-130	
Benzene	ug/L	50	49.4	99	70-130	
Diisopropyl ether	ug/L	50	46.6	93	70-130	
Ethanol	ug/L	2000	1940	97	70-130	
Ethyl-tert-butyl ether	ug/L	100	95.1	95	70-130	
Ethylbenzene	ug/L	50	47.6	95	70-130	
m&p-Xylene	ug/L	100	96.2	96	70-130	
Methyl-tert-butyl ether	ug/L	50	47.1	94	70-130	
Naphthalene	ug/L	50	44.9	90	70-130	
o-Xylene	ug/L	50	46.1	92	70-130	
tert-Amyl Alcohol	ug/L	1000	969	97	70-130	
tert-Amylmethyl ether	ug/L	100	91.7	92	70-130	
tert-Butyl Alcohol	ug/L	500	433	87	70-130	
tert-Butyl Formate	ug/L	400	386	96	70-130	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

**REPORT OF LABORATORY ANALYSIS**

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### QUALITY CONTROL DATA

Project: STEADY SIMMONS GAC  
Pace Project No.: 92565958

LABORATORY CONTROL SAMPLE: 3419499

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Toluene	ug/L	50	45.5	91	70-130	
Xylene (Total)	ug/L	150	142	95	70-130	
1,2-Dichloroethane-d4 (S)	%			98	70-130	
4-Bromofluorobenzene (S)	%			98	70-130	
Toluene-d8 (S)	%			94	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3419500 3419501

Parameter	Units	92565962010		3419500		3419501		% Rec	% Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Result	MSD Spike Conc.	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
1,2-Dichloroethane	ug/L	ND	20	20	18.5	19.7	93	98	70-137	6	30		
3,3-Dimethyl-1-Butanol	ug/L	ND	400	400	404	433	101	108	39-157	7	30		
Benzene	ug/L	ND	20	20	20.5	21.9	103	109	70-151	6	30		
Diisopropyl ether	ug/L	ND	20	20	16.3	16.4	81	82	63-144	1	30		
Ethanol	ug/L	ND	800	800	719	780	90	98	39-176	8	30		
Ethyl-tert-butyl ether	ug/L	ND	40	40	33.2	35.8	83	90	66-137	8	30		
Ethylbenzene	ug/L	ND	20	20	20.3	22.2	101	111	66-153	9	30		
m&p-Xylene	ug/L	ND	40	40	41.4	45.8	103	114	69-152	10	30		
Methyl-tert-butyl ether	ug/L	ND	20	20	15.4	17.3	77	86	54-156	12	30		
Naphthalene	ug/L	ND	20	20	18.2	21.4	91	107	61-148	16	30		
o-Xylene	ug/L	ND	20	20	19.4	21.4	97	107	70-148	10	30		
tert-Amyl Alcohol	ug/L	ND	400	400	322	388	80	97	54-153	19	30		
tert-Amylmethyl ether	ug/L	ND	40	40	34.9	39.3	87	98	69-139	12	30		
tert-Butyl Alcohol	ug/L	ND	200	200	205	229	102	115	43-188	11	30		
tert-Butyl Formate	ug/L	ND	160	160	105	102	66	63	10-170	3	30		
Toluene	ug/L	ND	20	20	20.2	21.6	101	108	59-148	7	30		
Xylene (Total)	ug/L	ND	60	60	60.8	67.2	101	112	63-158	10	30		
1,2-Dichloroethane-d4 (S)	%							102	103	70-130			
4-Bromofluorobenzene (S)	%							101	96	70-130			
Toluene-d8 (S)	%							100	101	70-130			

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### REPORT OF LABORATORY ANALYSIS

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**QUALITY CONTROL DATA**

Project: STEADY SIMMONS GAC  
Pace Project No.: 92565958

QC Batch: 652265	Analysis Method: EPA 8011
QC Batch Method: EPA 8011	Analysis Description: GCS 8011 EDB DBCP
	Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92565958001

METHOD BLANK: 3420334 Matrix: Water  
Associated Lab Samples: 92565958001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	0.020	0.0081	10/12/21 20:56	
1-Chloro-2-bromopropane (S)	%	109	60-140		10/12/21 20:56	

LABORATORY CONTROL SAMPLE & LCSD: 3420335 3420336

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	0.25	0.26	0.26	104	105	60-140	0	20	
1-Chloro-2-bromopropane (S)	%				102	107	60-140			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3420337 3420338

Parameter	Units	92565663027 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dibromoethane (EDB)	ug/L	ND	0.25	0.25	0.26	0.25	104	103	60-140	1	20	
1-Chloro-2-bromopropane (S)	%						107	105	60-140			

SAMPLE DUPLICATE: 3420339

Parameter	Units	92565663028 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	ND		20	
1-Chloro-2-bromopropane (S)	%	106	104			

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**REPORT OF LABORATORY ANALYSIS**

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## QUALIFIERS

Project: STEADY SIMMONS GAC  
Pace Project No.: 92565958

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### DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

## REPORT OF LABORATORY ANALYSIS

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**QUALITY CONTROL DATA CROSS REFERENCE TABLE**

Project: STEADY SIMMONS GAC  
Pace Project No.: 92565958

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<b>Lab ID</b>	<b>Sample ID</b>	<b>QC Batch Method</b>	<b>QC Batch</b>	<b>Analytical Method</b>	<b>Analytical Batch</b>
92565958001	MECI GAC	EPA 8011	652265	EPA 8011	652420
92565958001	MECI GAC	EPA 8260D	652083		

**REPORT OF LABORATORY ANALYSIS**



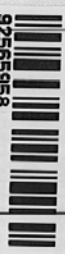
# CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE

## W0#: 92565958

92565958



Number or

Company: **SCHEC (MFC)**  
 Address: **2000 Bull Street**  
 Report To: **R. Dunn**  
 Copy To: \_\_\_\_\_

Customer Project Name/Number: **Steady Simmons**  
 State: **SC** / County/City: **Durham**  
 Billing Information: \_\_\_\_\_

Site/Facility ID #: \_\_\_\_\_  
 Site Collection Info/Address: **Durham Ave. S. 200**  
 Email To: **11661 Grass Hwy**

Compliance Monitoring?  Yes  No  
 DW PWS ID #: \_\_\_\_\_  
 DW Location Code: \_\_\_\_\_

Turnaround Date Required: \_\_\_\_\_  
 Rush:  Same Day  Next Day  12 Day  13 Day  14 Day  15 Day

Field Filtered (if applicable):  Yes  No  
 Analysis: \_\_\_\_\_

\* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (S), Oil (O), Wipe (WP), Air (A), Tissue (TS), Glassary (B), Vapor (V), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Time	Composite End Date	Time	Res Cl	# of Chs
Sw-1	W	W	10/12/12	13:00				6
Sw-2	W	W		13:06				1
Sw-3	W	W		13:24				1
Quarantine	W	W		14:03				1
Field Blank	W	W		8:00				2
TRP Blank	W	W		14:02				2
IME1 GAC	W	W						2

Customer Remarks / Special Conditions / Possible Hazards: \_\_\_\_\_

Type of Ice Used:  Wet  Blue  Dry  None

Packing Material Used: **Bubble PADS**

Radionuclide sample(s) screened (<500 gpm):  Y  N  NA

Received by/Company: (Signature) **JOSH MARIAS**  
 Date/Time: **10/8/12 15:20**

Received by/Company: (Signature) \_\_\_\_\_  
 Date/Time: \_\_\_\_\_

Received by/Company: (Signature) \_\_\_\_\_  
 Date/Time: \_\_\_\_\_

Received by/Company: (Signature) \_\_\_\_\_  
 Date/Time: \_\_\_\_\_

Received by/Company: (Signature) \_\_\_\_\_  
 Date/Time: \_\_\_\_\_

Received by/Company: (Signature) \_\_\_\_\_  
 Date/Time: \_\_\_\_\_

Received by/Company: (Signature) \_\_\_\_\_  
 Date/Time: \_\_\_\_\_

Received by/Company: (Signature) \_\_\_\_\_  
 Date/Time: \_\_\_\_\_

Container/Preservative Type: \_\_\_\_\_

Analyses: \_\_\_\_\_

Lab Profile/Line: \_\_\_\_\_

Lab Sample Receipt Checklist:

Custody Seals Present:  Y  N  NA

Custody Signatures Present:  Y  N  NA

Correct Bottles:  Y  N  NA

Sufficient Volume:  Y  N  NA

USDA Regulated Soils:  Y  N  NA

Residual Chlorine Present:  Y  N  NA

CL Strips:  Y  N  NA

Sample pH Acceptable:  Y  N  NA

pH Strips:  Y  N  NA

Sulfide Present:  Y  N  NA

Lead Acetate Strips:  Y  N  NA

LAB USE ONLY: Lab Sample # / Comments: **QZSL04768**

Lab Sample Temperature Info: \_\_\_\_\_

Temp Blank Received:  Y  N  NA

Cooler 1 Temp Upon Receipt: **9.0C**

Cooler 1 Temp Corr. Factor: **0.0C**

Cooler 1 Corrected Temp: **9.0C**

Comments: \_\_\_\_\_

Trip Blank Received:  Y  N  NA

HCL / MeOH TSP Other: \_\_\_\_\_

Non Conformance(s):  YES  NO

**APPENDIX B:**

**TAX MAP**





**Legend**  
 □ Parcels  
 — Roads

<b>Parcel ID</b>	052-00-05-027	<b>Alternate ID</b>	052-00-05-027	<b>Owner</b>	THOMPSON WAYNE	<b>Last 2 Sales</b>			
<b>Sec/Twp/Rng</b>	n/a	<b>ID</b>		<b>Address</b>	16657 GRAYS HWY EARLY BRANCH SC 29916	<b>Date</b>	<b>Price</b>	<b>Reason</b>	<b>Qual</b>
<b>Property</b>	16657 GRAYS	<b>Class</b>	Rural mobile home land (legal)			4/24/2002	\$46000	n/a	Q
<b>Address</b>	HWY	<b>Acreage</b>	1.97			n/a	0	n/a	n/a
<b>District</b>	01								
<b>Brief</b>	16657 GRAYS HWY								
<b>Tax Description</b>	(Note: Not to be used on legal documents)								

Date created: 8/3/2021  
 Last Data Uploaded: 8/3/2021 1:46:15 AM

Developed by Schneider  
 GEOSPATIAL

**APPENDIX C:**  
**DISPOSAL MANIFEST**





October 19, 2021

Re: Treatment of Purge Water  
Steady Simmons  
Early Branch, South Carolina  
SCDHEC Site ID Number 18856  
MECI Project Number 21-7680

To Whom It May Concern;

Midlands Environmental Consultants, Inc. is providing the following letter as certification that treatment of the referenced purge water complied with the conditions of "Proposed Conditions for Use of Portable Activated Carbon Units for the Treatment of Small Volumes of Petroleum Hydrocarbon Contaminated Groundwater", as described in the following:

Applicability:

Groundwater treated was obtained as a result development of wells and sampling.

Conditions:

1. The purge/bail water from all wells is mixed before usage of the Activated Carbon Unit.
2. No free-product was detected in any of the purge water drums.
3. Analytical results of from well sampling show average concentrations of petroleum hydrocarbon constituents less than 5000 parts per billion (ppb) Benzene and less than 20,000 ppb total BTEX.
4. The existing carbon pack will be replaced/reactivated every 5,000 gallons.
5. Record of usage is maintained by Contractor.
6. Any and all recommendations and conditions issued by the Manufacturer have been adhered to.
7. Any and all recommendations and conditions (even on a site by site basis) issued by the SCDHEC must be adhered to.

All purge waters were treated on-site using an up-flow treatment drum loaded with 80 pounds of activated carbon. Carbon will be loaded to a maximum of 3 pounds of total organic compounds or 5,000 gallons of development/purge water, whichever occurs first.

**A total of 64.50 gallons were treated on October 6, 2021 at the referenced site.**

Midlands Environmental also tracks cumulative organic compounds adsorbed on the activated carbon to ensure the capacity of carbon mass is not over-charged. This data is available upon request.

Should you have any questions or comments, please contact the undersigned.

Sincerely,  
Midlands Environmental Consultants, Inc.



Jeff L. Coleman  
Senior Scientist

**APPENDIX D:  
ACCESS AGREEMENTS**

**RIGHT-OF-ENTRY FORM  
PROPERTY OWNER**

UST Permit # 18856

**If you are the Property Owner or are the authorized representative for that person, but did not own the former or existing underground storage tanks at the time the release was reported, please complete this form.**

I, WAYNE THOMPSON, certify that I am the legal owner of the property identified below or serve as the authorized representative for the property owner. I authorize the South Carolina Department of Health and Environmental Control (DHEC), or a contractor selected by DHEC, to enter this property at reasonable times only to conduct assessment and corrective action activities, as required. The contractor will be designated as the contractor for the UST owner or operator for only the required environmental site rehabilitation activities. Compensation to the contractor will be from the SUPERB Account and I will have no obligation to pay the contractor. I understand that DHEC or its contractor will notify me of all activities that are necessary prior to their initiation and will promptly provide to me a summary of the data upon request.

Name of Facility Steady Simmons Phone # \_\_\_\_\_

Street Address of Facility: 16661 Grays Highway

Town, City, District, Suburb Early Branch, SC 29916-8016

Name of nearest intersecting street, road, highway, alley U.S. Hwy # 278

Is this facility within the city limits? (yes or no) NO

Does a public water or sewer utility service this facility? (yes or no) NO

If no, please provide the name and phone number of a person that we can contact that can assist in the location of private water and septic tank lines WAYNE THOMPSON  
phone number (803) 398-7718.

Is the property currently leased or rented to someone? (yes or no) NO

If yes, please provide their name N/A and phone number N/A  
\_\_\_\_\_ and let them know about the pending site rehabilitation activities. If vehicles or other mobile structures are parked over the monitoring wells, they should be moved before DHEC's contractor arrives at the site.

NAME of Property owner (Please Print): WAYNE THOMPSON

Phone Number (home) <sup>(cell)</sup> (803) 398-7718 (work) (NONE)

Current Mailing Address: 16657 GRAYS HIGHWAY, EARLY BRANCH, SC  
29916-8016

Signature of Property Owner: Wayne Thompson

Witness: Bruce Johnson

Date: May 10, 2018 Month \_\_\_\_\_ Day \_\_\_\_\_ Year \_\_\_\_\_

**Please return to Kathryn H. Butler, UST Management Division, 2600 Bull Street, SC 29201**

Disclaimer: Personal Information provided on this document is subject to public scrutiny or release.



**APPENDIX E:  
DATA VERIFICATION CHECKLIST**

**Contractor Checklist**

<b>Item#</b>	<b>Item</b>	<b>Yes</b>	<b>No</b>	<b>N/A</b>
1	Are Facility Name, Permit #, and address provided?	X		
2	Is UST Owner/Operator name, address, & phone number provided?	X		
3	Is name, address, & phone number of current property owner provided?	X		
4	Is the DHEC Certified UST Site Rehabilitation Contractor's Name, Address, telephone number, and certification number provided?	X		
5	Is the name, address, telephone number, and certification number of the well driller that installed borings/monitoring wells provided?			X
6	Is the name, address, telephone number, and certification number of the certified laboratory(ies) performing analytical analyses provided?	X		
7	Has the facility history been summarized?			X
8	Has the regional geology and hydrogeology been described?			X
9	Are the receptor survey results provided as required?			X
10	Has current use of the site and adjacent land been described?	X		
11	Has the site-specific geology and hydrogeology been described?			X
12	Has the primary soil type been described?			X
13	Have field screening results been described?			X
14	Has a description of the soil sample collection and preservation been detailed?			X
15	Has the field screening methodology and procedure been detailed?			X
16	Has the monitoring well installation and development dates been provided?			X
17	Has the method of well development been detailed?			X
18	Has justification been provided for the locations of the monitoring wells?			X
19	Have the monitoring wells been labeled in accordance with the UST QAPP guidelines?			X
20	Has the groundwater sampling methodology been detailed?	X		
21	Have the groundwater sampling dates and groundwater measurements been provided? (Table 2 & Figure 3)	X		
22	Has the purging methodology been detailed?	X		
23	Has the volume of water purged from each well been provided along with measurements to verify that purging is complete? (Appendix A)	X		
24	If free-product is present, has the thickness been provided?			X
25	Does the report include a brief discussion of the assessment done and the results?	X		
26	Does the report include a brief discussion of the aquifer evaluation and results?			X
27	Does the report include a brief discussion of the fate & transport models used?			X

Item#	Item	Yes	No	N/A
28	Are the site-conceptual model tables included? (Tier 1 Risk Evaluation)			X
29	Have the exposure pathways been analyzed? (Tier 2 Risk Evaluation)			X
30	Have the SSTLs for each compound and pathway been calculated? (Tier 2 Risk Evaluation)			X
31	Have recommendations for further action been provided and explained?			X
32	Has the soil analytical data for the site been provided in tabular format?			X
33	Has the potentiometric data for the site been provided in tabular format? (Table 2)	X		
34	Has the current and historical laboratory data been provided in tabular format? (Table 1)			X
35	Have the aquifer characteristics been provided and summarized on the appropriate form?			X
36	Have the Site conceptual model tables been included? (Tier 1 Risk Evaluation)			X
37	Has the topographic map been provided with all required elements? (Figure 1)	X		
38	Has the site base map been provided with all required elements? (Figure 2)	X		
39	Have the CoC site maps been provided? (Figures 3)	X		
40	Has the site potentiometric map been provided? (Figure 4)	X		
41	Have the geologic cross-sections been provided?			X
42	Have maps showing the predicted migration of the CoCs through time been provided? (Tier 2 Risk Evaluation)			X
43	Has the site survey been provided and include all necessary elements?			X
44	Have the sampling logs, chain of custody forms, and the analytical data package been included with all required elements? (Appendix A)	X		
45	Is the laboratory performing the analyses properly certified?	X		
46	Has the tax map been included with all necessary elements? (Appendix B)			X
47	Have the soil boring/field screening logs been provided?			X
48	Have the well completion logs and SCDHEC Form 1903 been provided?			X
49	Have the aquifer evaluation forms, data, graphs, equations, etc. been provided?			X
50	Have the disposal manifests been provided? (Appendix C)			X
51	Has a copy of the local zoning regulations been provided?			X
52	Has all fate and transport modeling been provided?			X
53	Have copies of all access agreements obtained by the contractor been provided? (Appendix D)			X
54	Has a copy of this form been attached to the final report and are explanations for any missing or incomplete data been provided? (Appendix E)	X		

**APPENDIX F:  
RECEPTOR PHOTOS**





SW-1



SW-2




SW-3



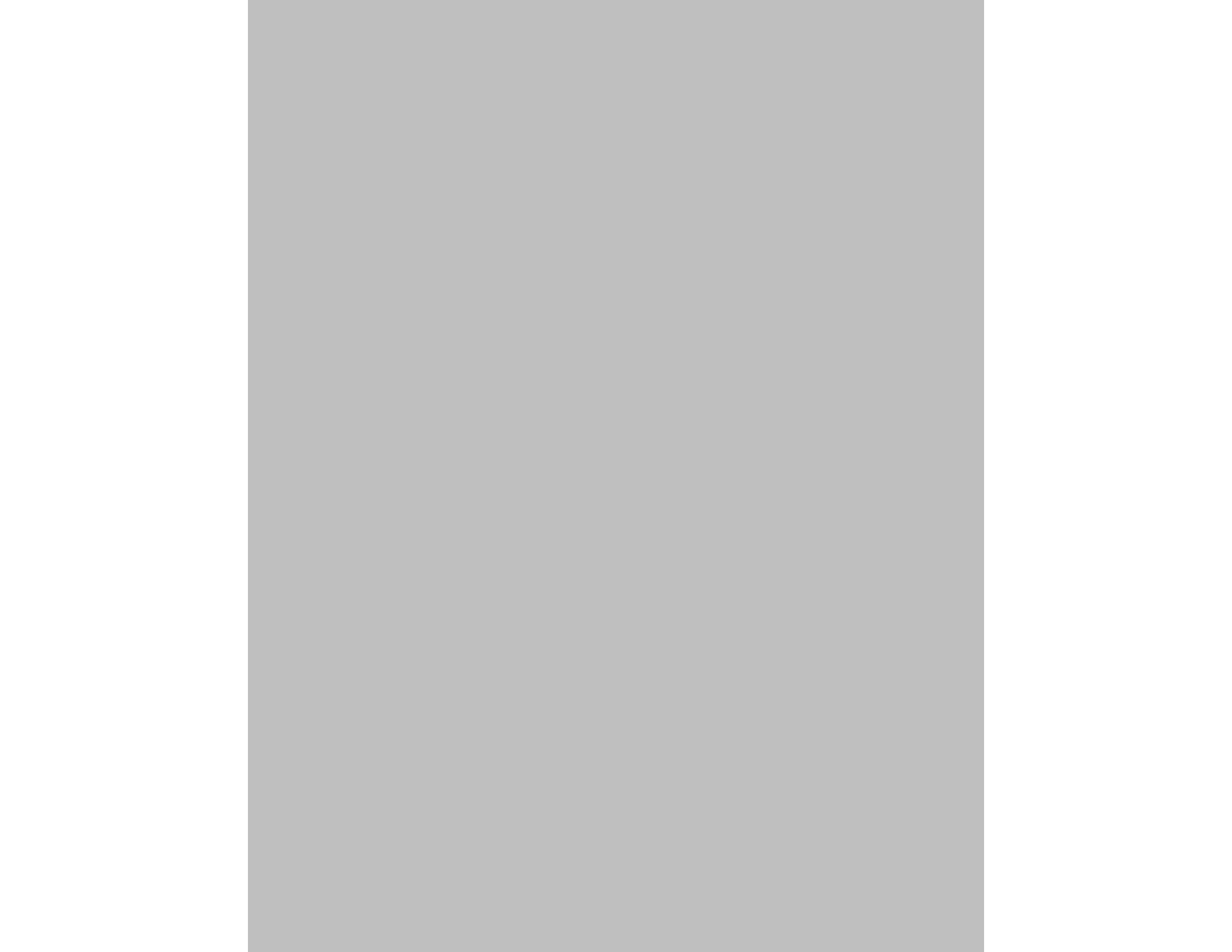


www-5

Sample Location

A black and white photograph showing a close-up of a wooden structure, possibly a door or panel. The wood has a vertical grain and shows signs of wear and discoloration. A metal fitting, possibly a hinge or latch, is visible on the right side. The text "WSW-9" and "Sample Location" is overlaid in the center of the image. There are some faint markings and a small rectangular label on the wood to the left of the text.

WSW-9  
Sample Location





18856

FEB 22 2022

MR BRYAN SHANE PG  
MIDLANDS ENVIRONMENTAL CONSULTANTS  
PO BOX 854  
LEXINGTON SC 29071



Re: Site Specific Work Plan Request  
Groundwater Sampling Contract  
Solicitation #IFB-5400021335

Dear Mr. Shane:

In accordance with bid solicitation # IFB-5400021335, submission of a Site-Specific Work Plan (SSWP) based on each site information package provided is requested.

The SSWP must be submitted within 20 calendar days of the date of this correspondence. The project manager for each site will issue a notice to proceed once the plan has been reviewed and approved. A weekly update for each site should be emailed to the site's project manager and myself. If you have any questions or need further assistance, please contact me by phone (803) 898-0500 or email brownaj@dhec.sc.gov.

Sincerely,

A large, stylized handwritten signature in black ink, appearing to read "Arthur Brown".

Arthur Brown, Hydrogeologist  
Corrective Action & Field Support Section  
UST Management Division  
Bureau of Land & Waste Management

Enc: Site Information Package Summary (SIPS)  
Site Information Packages

Cc: Lindsey Wooten, Pace Analytical Services, 9800 Kincey Ave. STE 100, Huntersville, NC 28078 (w/ SIPS)  
Technical File (w/o Enc)





UNDERGROUND STORAGE TANK PROGRAM  
 BUREAU OF LAND AND WASTE MANAGEMENT  
 2600 Bull Street, Columbia, South Carolina 29201  
 Telephone: 803-898-2544

**MEMORANDUM**

TO: Statelead Groundwater Sampling Contractor

FROM: Arthur Brown

RE: Site Specific Work Plan Request

Facility Name: Steady Simmons Contractor CA# 65098  
 Permit Number: 18856 PACE CA #: 65099  
 County: Jasper RBCA CLASS: 2AB

List Monitoring Wells to be Sampled	Purging Method	Purge All
Shallow	MW-1R, MW-2, MW-5, MW-6, MW-7, MW-8, MW-9, MW_10 or see attached table	
Intermediate		
Deep	DW-1, DW-2 or see attached table	

Surface Water Points to be Sampled (MUST BE ON MAP PROVIDED)  
 SW-1 - SW-3

WSW Points to be Sampled (MUST BE ON MAP PROVIDED CONTACT INFO w TAX MAP INFO)  
 WSW-1 - WSW-9

Sample Below Product

Additional Potentiometric Maps Requested - See Below (Note: Shallow & Deep Included)

Isopleth Maps requested instead of CoC Map (Only for CoCs >RBSL or SSTL)

Other:  
 The generation of a tax map is requested as part of this scope of work.

Total Groundwater Sample Points: 13

Analysis Being Requested: K. BTEXNM+Oxyq's+1,2 DCA+Eth(8260B), K7. EDB by EPA 8011

Total Water Supply Well Points: 9

Analysis Being Requested: K14. BTEXNM+1,2 DCA (524.2), K15. 7-OXYGENATES & ETHANOL (8260B), K16. EDB (504.1)



March 17, 2022



Mr. Arthur Brown, Hydrogeologist  
Corrective Action & Field Support Section  
Underground Storage Tank Management Division  
Bureau of Land and Waste Management  
South Carolina Department of Health  
and Environmental Control  
2600 Bull Street  
Columbia, South Carolina 29201

**RECEIVED**

MAR 17 2022

SC Department of  
Health & Environmental Control

Subject: Site-Specific Work Plan  
Steady Simmons  
Early Branch, South Carolina  
SCDHEC Site ID Number 18856  
MECI Project Number 22-7803  
Certified Site Rehabilitation Contractor UCC-0009

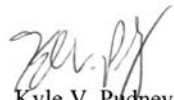
Dear Mr. Wykel,


Midlands Environmental Consultants Inc. (MECI) is pleased to submit the attached Site-Specific Work Plan for the referenced site.

On March 16, 2022, MECI personnel performed a site visit to the subject sites to evaluate site conditions, locate monitoring wells and identify potential problems for future sampling activities.

If you have any question or comments, please feel free to contact us at 803-808-2043.

Sincerely,  
**Midlands Environmental Consultants, Inc.**

  
Kyle V. Pudney  
Project Biologist

  
Jeff L. Coleman  
Senior Scientist



**Site-Specific Work Plan for Approved ACQAP  
Underground Storage Tank Management Division**

To: Mr. Arthur Brown (SCDHEC Project Manager)  
 From: Jeff L. Coleman (Contractor Project Manager)  
 Contractor: Midlands Environmental Consultants, Inc. UST Contractor Certification Number: 009

Facility Name: Steady Simmons UST Permit #: 18856  
 Facility Address: 16661 Grays Highway, Early Branch, SC 29916  
 Responsible Party: Steady Simmons Phone: N/A  
 RP Address: P.O. Box 155H, Ridgeland, SC 29936  
 Property Owner (if different): Wayne Thompson  
 Property Owner Address: 1667 Grays Highway, Early Branch, SC 29116  
 Current Use of Property: Vacant Building/Residential Property

**Scope of Work (Please check all that apply)**  
 IGWA       Tier II       Groundwater Sampling       GAC  
 Tier I       Monitoring Well Installation       Other \_\_\_\_\_

**Analyses (Please check all that apply)**  
 Groundwater/Surface Water:  
 BTEXNMDCA (8260D)       Lead       BOD       Methane  
 Oxygenates (8260D)       8 RCRA Metals       Nitrate       Ethanol  
 EDB (8011)       TPH       Sulfate       Dissolved Iron  
 PAH (8270E)       pH       Other \_\_\_\_\_  
 Drinking Water Supply Wells:  
 BTEXNMDCA (524.2)       Mercury (200.8 245.1 or 245.2)       EDB (504.1)  
 Oxygenates & Ethanol (8260D)       RCRA Metals (200.8)  
 Soil:  
 BTEXNM       Lead       RCRA Metals       TPH-DRO (3550B/8015B)       Grain Size  
 PAH       Oil & Grease (9071)       TPH-GRO (5030B/8015B)       TOC  
 Air:  
 BTEXN

**Sample Collection (Estimate the number of samples of each matrix that are expected to be collected.)**  
 \_\_\_\_\_ Soil      9 Water Supply Wells      \_\_\_\_\_ Air      2 Field Blank  
10 Monitoring Wells      3 Surface Water      2 Duplicate      2 Trip Blank

**Field Screening Methodology**  
 Estimate number and total completed depth for each point, and include their proposed locations on the attached map.  
 # of shallow points proposed: \_\_\_\_\_ Estimated Footage: \_\_\_\_\_ feet per point  
 # of deep points proposed: \_\_\_\_\_ Estimated Footage: \_\_\_\_\_ feet per point  
 Field Screening Methodology: \_\_\_\_\_

**Permanent Monitoring Wells**  
 Estimate number and total completed depth for each well, and include their proposed locations on the attached map.  
 # of shallow wells: \_\_\_\_\_ Estimated Footage: \_\_\_\_\_ feet per point  
 # of deep wells: \_\_\_\_\_ Estimated Footage: \_\_\_\_\_ feet per point  
 # of recovery wells: \_\_\_\_\_ Estimated Footage: \_\_\_\_\_ feet per point  
 Comments, if warranted:  
 \_\_\_\_\_  
 \_\_\_\_\_

UST Permit #: 18856 Facility Name: Steady Simmons

**Implementation Schedule (Number of calendar days from approval)**  
 Field Work Start-Up: 3/17/2022 Field Work Completion: 4/17/2022  
 Report Submittal: 5/17/2022 # of Copies Provided to Property Owners: \_\_\_\_\_

**Aquifer Characterization**  
 Pump Test:  Slug Test:  (Check one and provide explanation below for choice)  
 \_\_\_\_\_  
 \_\_\_\_\_

**Investigation Derived Waste Disposal**  
 Soil: \_\_\_\_\_ Tons Purge Water: 150.0 Gallons  
 Drilling Fluids: \_\_\_\_\_ Gallons Free-Phase Product: \_\_\_\_\_ Gallons

**Additional Details For This Scope of Work**  
 For example, list wells to be sampled, wells to be abandoned/repared, well pads/bolts/caps to replace, details of AFVR event, etc.  
 -All monitoring wells to be sampled were located and found to be in good condition.  
 -All wells will be purged prior to sample collection.  
 -MECI will attempt to sample 9 water supply wells and 3 surface water bodies during sampling activities.  
 -Samples will be analyzed for BTEXNM, DCA, Oxy's and EDB by appropriate methods.  
 \_\_\_\_\_  
 \_\_\_\_\_

**Compliance With Annual Contractor Quality Assurance Plan (ACQAP)**  
Yes Laboratory as indicated in ACQAP? (Yes/No) If no, indicate laboratory information below.  
 Name of Laboratory: \_\_\_\_\_  
 SCDHEC Certification Number: \_\_\_\_\_  
 Name of Laboratory Director: \_\_\_\_\_  
N/A Well Driller as indicated in ACQAP? (Yes/No) If no, indicate driller information below.  
 Name of Well Driller: \_\_\_\_\_  
 SCLLR Certification Number: \_\_\_\_\_  
None Other variations from ACQAP. Please describe below.  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

**Attachments**

1. Attach a copy of the relevant portion of the USGS topographic map showing the site location.
2. Prepare a site base map. This map must be accurately scaled, but does not need to be surveyed. The map must include the following:
 

North Arrow	Proposed monitoring well locations
Location of property lines	Legend with facility name and address, UST permit number, and bar scale
Location of buildings	Streets or highways (indicate names and numbers)
Previous soil sampling locations	Location of all present and former ASTs and USTs
Previous monitoring well locations	Location of all potential receptors
Proposed soil boring locations	
3. Assessment Component Cost Agreement, SCDHEC Form D-3664



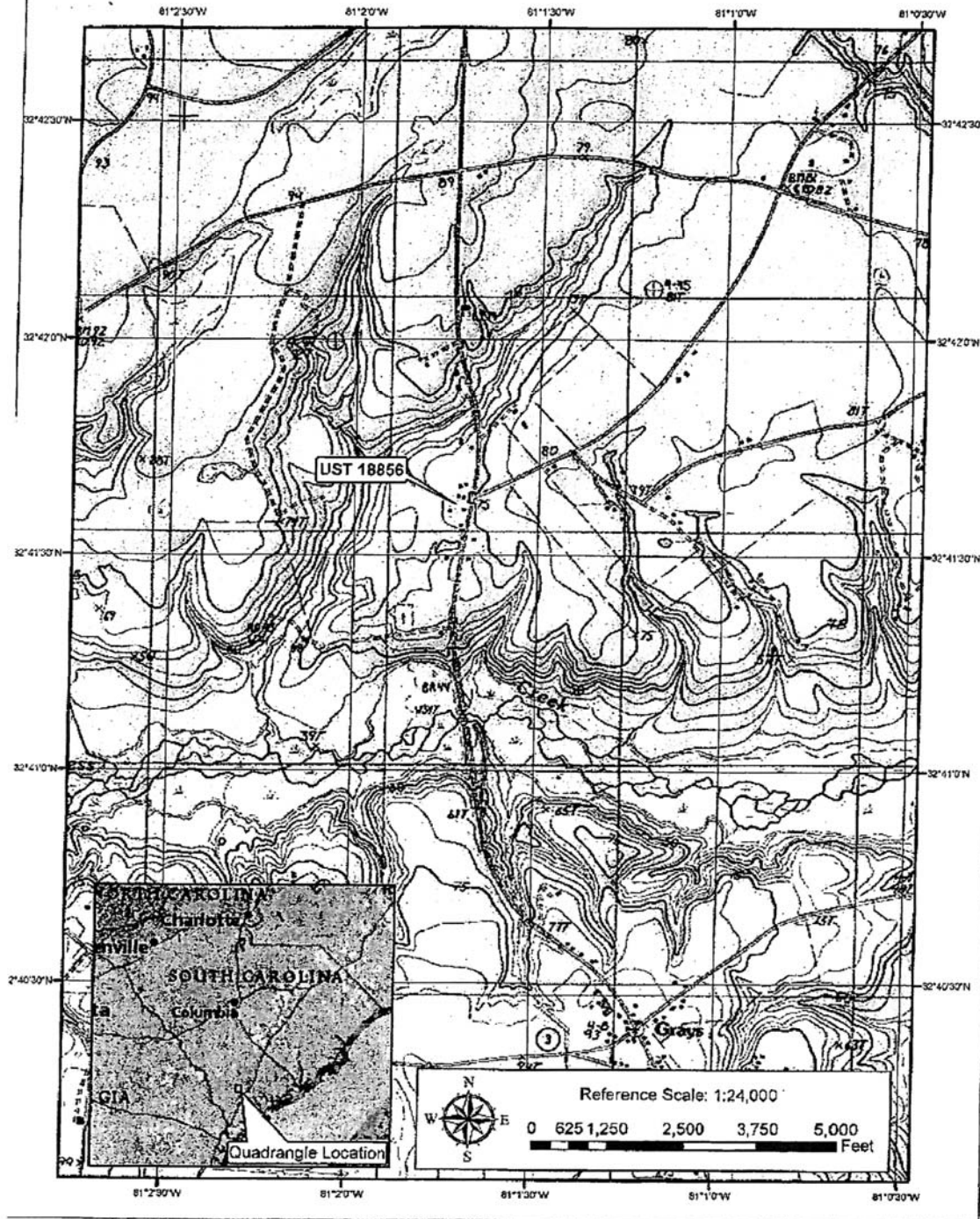
**ASSESSMENT COMPONENT COST AGREEMENT  
SOUTH CAROLINA**

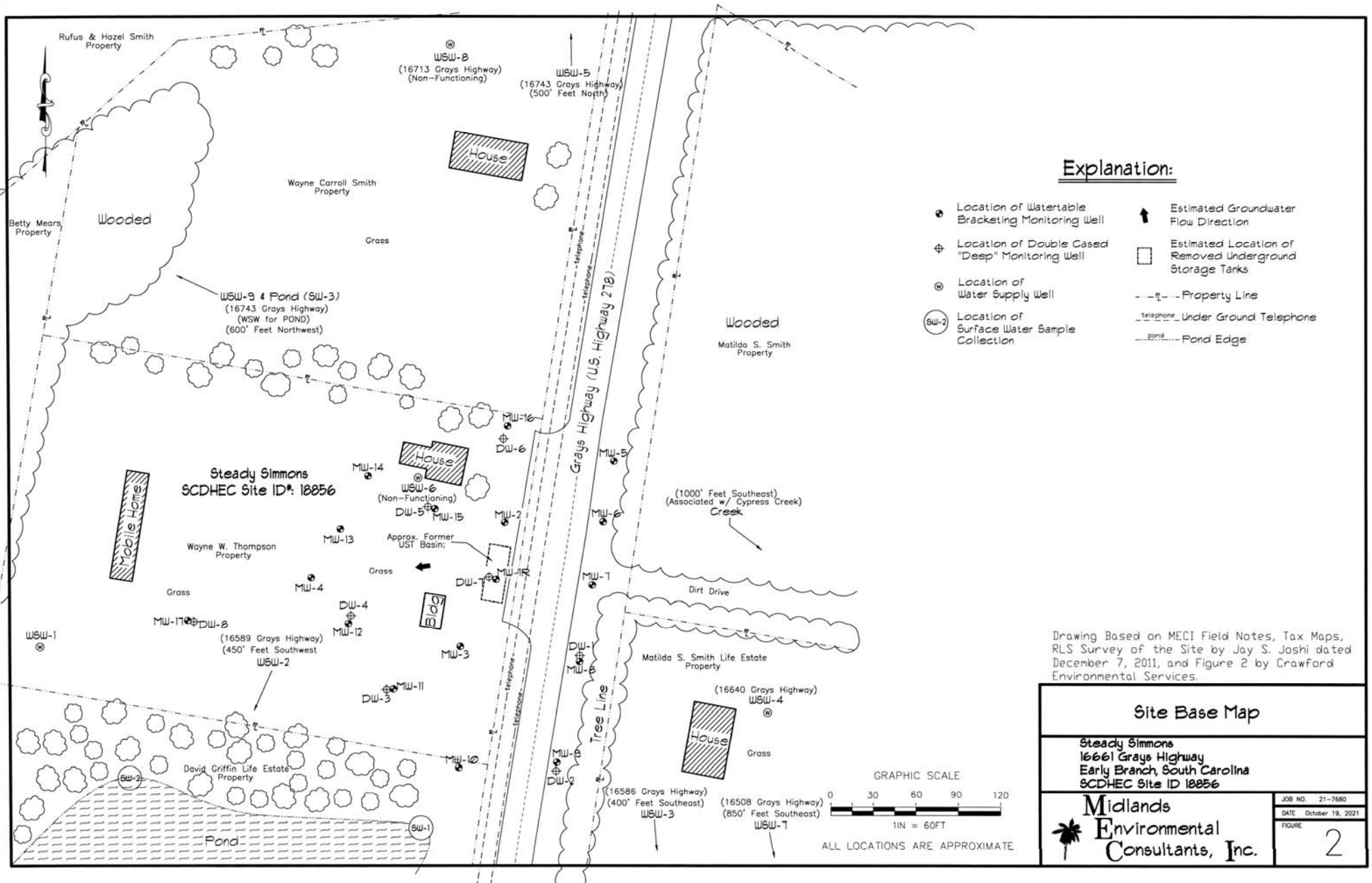
Department of Health and Environmental Control  
Underground Storage Tank Management Division  
State Underground Petroleum Environmental Response Bank Account  
**CONTRACT PO # 4600830568**

Facility Name: Steady Simmons  
 UST Permit #: 18856 Cost Agreement #: Proposal

ITEM	QUANTITY	UNIT	UNIT PRICE		TOTAL
<b>A. Plan Preparation</b>					
1. Site Specific Work Plan	1	each	\$425.00		\$425.00
2. Tax Map		each	\$50.00		\$0.00
<b>B. Receptor Survey</b>					
		each	\$50.00		\$0.00
<b>D. Mob/Demob</b>					
2. Personnel	1	each	\$610.00		\$610.00
<b>J. Groundwater Sample Collection / Gauge Depth to Water or Product (Each)</b>					
1. Groundwater Purge	10	per well	\$10.00		\$100.00
2. Air or Vapors		per sample	\$1.00		\$0.00
3. Water Supply Sample	9	per sample	\$40.00		\$360.00
4. Groundwater No Purge/Surface Water	3	per sample	\$8.00		\$24.00
R-1. HydraSleeve		per sample	\$23.00		\$0.00
5. Gauge Well only		per data point	\$1.00		\$0.00
6. Sample Below Product		per well	\$1.80		\$0.00
7. Passive Diffusion Bag		per well	\$25.00		\$0.00
9. Groundwater (low flow purge)		per well	\$25.00		\$0.00
10. Equipment Blank		per day	\$10.00		\$0.00
<b>Q. Disposal (gallons or tons)</b>					
1. Wastewater	150	per gallon	\$0.33		\$49.50
2. Free Product		per gallon	\$0.05		\$0.00
<b>R. Miscellaneous</b>					
2. Additional Potentiometric Map		each above required two	\$10.00		\$0.00
3. Isoleth Map		each above required one	\$50.00		\$0.00
4. Data Table		per data set	\$100.00		\$0.00
5. Redraw/Digitize Site Map		each	\$150.00		\$0.00
6. Replace Well Lid		each	\$10.00		\$0.00
<b>Y. Well Repair</b>					
1. Additional Copies of Report Delivered		per copy	\$10.00		\$0.00
5. Replace well cover bolts		each	\$6.00		\$0.00
6. Replace locking well cap & lock		each	\$10.00		\$0.00
10. Replace missing/illegible well ID plate		each	\$10.00		\$0.00
<b>Subtotal</b>					<b>\$1,568.50</b>
S. Report Preparation/Project Coordination			Percent of Subtotal	0%	
<b>TOTAL</b>					<b>\$1,568.50</b>

# Steady Simmons UST Permit 18856





Rufus & Hazel Smith Property

WSW-8  
(16713 Grays Highway)  
(Non-Functioning)

WSW-5  
(16743 Grays Highway)  
(500' Feet North)

Wayne Carroll Smith Property

House

Betty Mears Property

Wooded

WSW-9 & Pond (SW-3)  
(16743 Grays Highway)  
(WSW for POND)  
(600' Feet Northwest)

Grass

Location of Watertable Bracketing Monitoring Well

Estimated Groundwater Flow Direction

Location of Double Cased "Deep" Monitoring Well

Estimated Location of Removed Underground Storage Tanks

Location of Water Supply Well

Property Line

Location of Surface Water Sample Collection

Under Ground Telephone

Pond Edge

Wooded  
Matilda S. Smith Property

Steady Simmons  
SCDHEC Site ID: 18856

House

WSW-6  
(Non-Functioning)

(1000' Feet Southeast)  
(Associated w/ Cypress Creek)

Wayne W. Thompson Property

Approx. Former UST Basin:

Dirt Drive

Mobile Home

Grass

Matilda S. Smith Life Estate Property

(16640 Grays Highway)  
WSW-4

WSW-1

MW-17 & DW-8  
(16589 Grays Highway)  
(450' Feet Southwest)

WSW-2

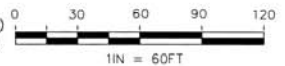
(16586 Grays Highway)  
(400' Feet Southeast)  
WSW-3

(16508 Grays Highway)  
(850' Feet Southeast)  
WSW-7

David Griffin Life Estate Property

Pond

GRAPHIC SCALE



ALL LOCATIONS ARE APPROXIMATE



MAR 31 2022

MR BRYAN SHANE PG  
MIDLANDS ENVIRONMENTAL CONSULTANTS  
PO BOX 854  
LEXINGTON SC 29071

Re: Notice to Proceed Site-Specific Work Plan (SSWP) Approval  
Groundwater Sampling Contract  
Solicitation #IFB-5400021335, PO #4600862094  
Steady Simmons, 16661 Grays Highway, Early Branch, SC  
UST Permit #18856; MECI CA #65098; Pace CA #65099  
Jasper County

Dear Mr. Shane:

In accordance with bid solicitation #IFB-5400021335, the SSWP has been reviewed and approved. A status report of the project should be provided on a weekly basis. If any quality assurance problems arise, you must contact me within 24 hours by phone or email.

Please coordinate access to the facility with the property owner. **Sampling should be conducted within 30 calendar days from the date of this letter. If the final report is not submitted within 60 days of the date of this correspondence, a late fee may be imposed.** The final report is to be submitted to the contract manager.

If you have any site-specific questions and/or contract specific questions, please contact Arthur Brown by email [brownaj@dhec.sc.gov](mailto:brownaj@dhec.sc.gov) or phone (803) 898-0500.

Sincerely,

A handwritten signature in black ink, appearing to read "Arthur Brown", is written over the word "Sincerely,".

Arthur Brown, Hydrogeologist  
Corrective Action & Field Support Section  
UST Management Division  
Bureau of Land & Waste Management

Enc: Approved Cost Agreement (both CAs)

Cc: Ms. Angela Baioni, Pace Analytical Services, 9800 Kinsey Ave, STE 100, Huntersville, NC, 28078 (w/ CA)  
Technical File (w/ Enc)





**Approved Cost Agreement 65098**

Facility: 18856 STEADY SIMMONS

BROWNAJ

PO Number: 862094-61

<u>Task / Description Categories</u>	<u>Item Description</u>	<u>Qty / Pct</u>	<u>Unit Price</u>	<u>Amount</u>
A PLAN PREPARATION	1 SITE SPECIFIC WORK PLAN	1.0000	\$425.000	425.00
D MOB/DEMOB	2 PERSONNEL	1.0000	\$610.000	610.00
J SAMPLE COLLECTION	1 GROUND WATER PURGE	10.0000	\$10.000	100.00
	3 WATER SUPPLY SAMPLE/ DUPLICATE	9.0000	\$40.000	360.00
	4 GROUNDWATER NO-PURGE/DUPL/GRAB	3.0000	\$8.000	24.00
Q DISPOSAL	1 WASTEWATER	150.0000	\$0.330	49.50
		<b>Total Amount</b>		<b>1,568.50</b>

**Approved Cost Agreement 05099**

Facility: 18856 STEADY SIMMONS

BROWNAJ

PO Number: 862169-77

<u>Task / Description</u>	<u>Categories</u>	<u>Item Description</u>	<u>Qty / Pct</u>	<u>Unit Price</u>	<u>Amount</u>
K ANALYSES					
	DW DRINKING WATER	14 BTEXNM+1,2 DCA (524.2) WSW	12.0000	\$42.000	504.00
		15 OXYGENATES & ETHANOL 8260B WSW	12.0000	\$20.000	240.00
		16 EDB (504.1) WSW	11.0000	\$22.000	242.00
	GW GROUNDWATER	1 BTEXNM+OXYGS+1,2-DCA+ETH-8260B	16.0000	\$26.000	416.00
		7 EDB BY EPA 8011	15.0000	\$22.000	330.00
<b>Total Amount</b>					<b>1,732.00</b>

---

# MONITORING REPORT

Steady Simmons  
16661 Grays Highway  
Early Branch, South Carolina  
Jasper County  
UST Permit# 18856; CA# 65098  
Solicitation# IFB-5400021335; PO# 4600830568

*Prepared By:*



231 Dooley Road, Lexington, SC 29073  
(803) 808-2043 fax: 808-2048

April 20, 2022

MECI Project No. 22-7803

---



April 20, 2022

Mr. Arthur Brown, Hydrogeologist  
Corrective Action Section  
Underground Storage Tank Program  
Bureau of Land and Waste Management  
South Carolina Department of Health  
and Environmental Control  
2600 Bull Street  
Columbia, South Carolina 29201


Subject: Report of Groundwater Sampling  
Steady Simmons  
16661 Grays Highway  
Early Branch, South Carolina  
Jasper County  
UST Permit# 18856; CA# 65098  
MECI Project Number 22-7803  
Certified Site Rehabilitation Contractor UCC-0009

Dear Mr. Brown,

Midlands Environmental Consultants Inc. (MECI) is pleased to submit the attached Report of Groundwater Sampling for the referenced site. This report describes site activities conducted at the site in general accordance with South Carolina Department of Health and Environmental Control's (SCDHEC) Quality Assurance Program Plan for the Underground Storage Tank Management Division (QAPP).

Midlands Environmental appreciates the opportunity to offer our professional environmental services to you on this project. Please feel free to contact us at 803-808-2043 if you have any immediate questions or comments.

Sincerely,  
**Midlands Environmental Consultants, Inc.**

  
Jeff L. Coleman  
Senior Scientist



Colin M. Phillips, P.G.  
Senior Hydrogeologist

**TABLE OF CONTENTS**

**1.0 INTRODUCTION .....1**

**2.0 RECEPTOR SURVEY & SITE DATA .....1**

**3.0 SAMPLING AND CHEMICAL ANALYSES.....2**

**4.0 RESULTS AND DISCUSSION .....3**

**5.0 QUALIFICATIONS OF REPORT .....4**

**TABLE OF CONTENTS (cont.)**

**TABLES:** Table 1 – GROUNDWATER COC DATA  
Table 1A – GROUNDWATER COC DATA (WATER SUPPLY WELLS)  
Table 2 – SITE ACTIVITY SUMMARY

**FIGURES:** Figure 1 – TOPOGRAPHIC MAP  
Figure 2 – SITE BASE MAP  
Figure 3 – GROUNDWATER COC SITE MAP  
Figure 3A – GROUNDWATER COC SITE MAP (WATER SUPPLY WELLS)  
Figure 4 – POTENTIOMETRIC DATA SITE MAP

APPENDIX A – SAMPLING LOGS, LABORATORY DATA SHEETS AND CHAIN OF CUSTODY FORMS  
APPENDIX B – TAX MAP DATA  
APPENDIX C – DISPOSAL MANIFEST  
APPENDIX D – ACCESS AGREEMENTS  
APPENDIX E – DATA VERIFICATION CHECKLIST  
APPENDIX F – RECEPTOR PHOTOS

**1.0 INTRODUCTION**

**i. Facility Information**

Name: Steady Simmons  
 Address: 16661 Grays Highway, Early Branch, SC 29116  
 Telephone #: N/A

**ii. Owner/Operator Information**

Name: Steady Simmons  
 Address: P.O. Box 155H, Ridgeland, SC 29936  
 Telephone #: N/A

**iii. Property Owner Information**

Name: Wayne Thompson  
 Tax Map #: Jasper County Tax Map#: 052-00-05-027  
 Address: 16657 Grays Highway, Early Branch, SC 29916  
 Telephone #: 803-398-7718

**iv. Contractor Information**

Name: Midlands Environmental Consultants, Inc.  
 Certification #: 9  
 Address: P. O. Box 854, Lexington, SC 29071  
 Telephone #: (803) 808-2043

**v. Facility History**

<b>Release Date:</b>	9/9/2002		
<b>Estimated Quantity of Release:</b>	Unknown		
<b>Other Releases at Facility:</b>	N/A		
<b>Release Ranking:</b>	2AB		
<b>Current Site Usage:</b>	Residence		
<b>Tank #</b>	<b>Capacity/Product</b>	<b>In Use/Abandoned</b>	<b>Tank Status</b>
1	1,000 Gal. Gasoline	Abandoned	Removed (7/16/2002)
2	550 Gal. Gasoline	Abandoned	Removed (7/16/2002)

**2.0 RECEPTOR SURVEY & SITE DATA**

**i. Known Potential Receptors**

Receptor ID#	Notes
SW-1	Collected from Pond (32.692095, -81.028624)
SW-2	Collected from Pond (32.642192, -81.029035)
SW-3	Collected from Pond (32.93831, -81.030328)
WSW-1	White Trailer Onsite, Sample Collected from Spigot on Well (32.692556, -81.029429)
WSW-2	16589 Grays Highway, Collected from Spigot on Well House (32.692016, -81.029713)
WSW-3	Denied Access to Sample Well, 16586 Grays Highway (32.691472, -81.027875)
WSW-4	16640 Grays Highway, Sample Collected from Spigot in Yard (32.692337, -81.028021)
WSW-5	16743 Grays Highway, Sample collected from Spigot on WSW (32.693472, -81.027875)
WSW-6	Not Operational, Onsite
WSW-7	Well has been Removed

Receptor ID#	Notes
WSW-8	Not Operational/No Resident, 16713 Gray Highway
WSW-9	16743 Grays Highway, Sample collected from Pump (32.693878, -81.028554)

**ii. Receptor Survey Results**

A receptor survey was not requested as part of the approved cost agreement.

**iii. Site/Adjacent Land Usage (Residential, Commercial, Agricultural, Industrial, etc.)**

Site	Residential
North	Residential
South	Residential
East	Residential
West	Wooded
Permit #'s of UST Sites within 1,000' feet of site	N/A

**3.0 SAMPLING AND CHEMICAL ANALYSES**

On April 4, 2022, MECI personnel collected groundwater samples from ten (10) monitoring wells, three (3) surface water locations and five (5) water supply wells at the subject site. Water supply wells WSW-3, WSW-6, WSW-7 and WSW-8 were unable to be sampled (See Table 2). Based on a request from SCDHEC, all monitoring wells were to be purged prior to sample collection. Ten (10) monitoring wells were purged prior to sample collection.

MECI personnel utilized an electronic water level indicator for water level measurements and an oil/water interface probe for free phase petroleum product level measurements. Where applicable, purging was completed by bailing at least five well volumes of water from the well, until pH, conductivity, dissolved oxygen and turbidity stabilized, or all water was evacuated from the well, whichever occurred first. Sampling/purging was completed utilizing a prepackaged, clear, disposable polyethylene bailer and nylon rope. A new set of nitrile gloves were worn at each monitoring well, and at all time samples were handled. Field measurements of pH, conductivity, dissolved oxygen, and water temperature were obtained before well sampling process. MECI utilized a YSI Pro20 meter for DO (mg/L) and temperature readings (°C), YSI Pro1030 meter for pH and conductivity (uS) readings and a MicroTPI turbidimeter for turbidity readings (NTU). The attached Field Data Information Sheets presents the results of the field measurements obtained. The wells were sampled in accordance with the most recent revision of SCDHEC's Quality Assurance Program Plan for the Underground Storage Tank Management Division and the most recent revision MECI's Standard Operating Procedures.

Groundwater samples obtained were sent to Pace Analytical Services, Inc. of Huntersville, NC (SCDHEC Laboratory Certification #99006001) for analysis.

The following sampling matrix contains well development and requested analyses for each well:



Sample ID	Purge	No Purge	Gauge Only	Low-Flow Sampling	Not Sampled	Not Located	BTEX, Naphthalene, MTBE, 1,2 DCA (EPA Method 8260D)	8 Oxygenates (EPA Method 8260D)	EDB (EPA Method 8011)	PAHs (EPA Method 8270E)	Total Lead (EPA Method 6010)	BTEX, Naphthalene, MTBE, 1,2 DCA (EPA Method 5242)	EDB (EPA Method 5041)
Analyte Sampled													
MW-1R	X						X	X	X				
MW-2	X						X	X	X				
MW-5	X						X	X	X				
MW-6	X						X	X	X				
MW-7	X						X	X	X				
MW-8	X						X	X	X				
MW-9	X						X	X	X				
MW-10	X						X	X	X				
DW-1	X						X	X	X				
DW-2	X						X	X	X				
SW-1		X					X	X	X				
SW-2		X					X	X	X				
SW-3		X					X	X	X				
DUP-1							X	X	X				
Field Blank							X	X	X				
Trip Blank							X	X					
WSW-1								X				X	X
WSW-2								X				X	X
WSW-3					X								
WSW-4								X				X	X
WSW-5								X				X	X
WSW-6					X								
WSW-7					X								
WSW-8					X								
WSW-9								X				X	X
WSW-DUP								X				X	X
Field Blank								X				X	X
Trip Blank								X				X	

Notes: BTEX = Benzene, Toluene, Ethylbenzene, & Total Xylenes  
 MTBE=Methyl tertiary butyl ether  
 1,2 DCA = 1,2 Dichloroethane  
 EDB = Ethylene Dibromide

Purge water produced by the purging process was treated on-site utilizing a granular activated carbon unit. A total of 102.00 gallons of purge water was disposed of in this manner. A disposal manifest for the referenced purge water is attached in Appendix C and the required Post-GAC laboratory results in presented in Appendix B.

#### 4.0 RESULTS AND DISCUSSION

- The apparent groundwater flow from the release is to the west.
- Free phase petroleum product was not detected in any of the monitoring wells during sampling activities. The analytical results indicate petroleum impact to the surficial aquifer with the highest dissolved concentrations being detected in MW-2. Of the eighteen sampling locations analyzed, two monitoring wells (MW-1R & MW-2) detected petroleum constituents above Risked Based Screening Levels (RBSL's).
- Petroleum constituents detected above the established RBSL include:

<i>Compound</i>	<i>RBSL/SCAL (ug/l)</i>	<i>Wells Above RBSL</i>
Product	0.01*	N/A
Benzene	5	MW-2
Toluene	1,000	MW-2
Ethylbenzene	700	MW-2
Total Xylenes	10,000	N/A
Naphthalene	25	MW-1R & MW-2
MTBE	40	N/A
1,2 DCA	5	N/A
EDB	0.05	MW-2
TAA	240	N/A
TAME	128	N/A
ETBA	NE	RBSL Not Established
TBA	1,400	N/A
TBF	NE	RBSL Not Established
DIPE	150	N/A
Ethanol	10,000	N/A
ETBE	47	N/A

- In order to assess precision, field duplicate samples were collected and analyzed along with the reviewed batch samples. The duplicated samples were analyzed for the same parameters as the associated parent samples. Precision is determined by calculating the Relative Percent Differences (RPD) between each pair of samples. The RPD control limit for the groundwater samples is 20%. Duplicate samples were collected from parent sample MW-1R and WSW-5. The precision for the target analytes were met for these sample pairs and the analytical results detected the same compounds at similar concentrations. Furthermore, field blanks and trip blanks were collected and submitted during the groundwater sampling activities. No detectable concentrations of the requested method constituents were reported in either of the field or trip blanks.

#### 5.0 QUALIFICATIONS OF REPORT

The activities and evaluative approaches used in this assessment are consistent with those normally employed in hydrogeological assessment and waste management projects of this type. Our evaluation of site conditions has been based on our understanding of the site, project information provided to us, and data obtained in our exploration. Contents of this report are intended for the sole use of MECI and SCDHEC under mutually agreed upon terms and conditions. If other parties wish to rely on this report, please contact MECI prior to their use of this information so that a mutual understanding and agreement of the terms and conditions of our services can be established.

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## TABLES

Table # 1  
 Summary of Analytical Results - Water Samples  
 Steady Simmons  
 Facility ID# 18856

Analytical Method		EPA 8011	EPA 8260D																
Sample ID	Constituent of Concern	1,2-Dibromoethane (EDB)	1,2-Dichloroethane	3,3-Dimethyl-1-Butanol	Benzene	Diisopropyl ether	Ethanol	Ethyl-tert-butyl ether	Ethylbenzene	Methyl-tert-butyl ether	Naphthalene	Toluene	Xylene (Total)	m&p-Xylene	o-Xylene	tert-Amyl Alcohol	tert-Amylmethyl ether	tert-Butyl Alcohol	tert-Butyl Formate
	Date Collected (mm/dd/yy)	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
DUP	04/04/2022	<0.019	<5.0	<100	<5.0	<5.0	<200	<10.0	26.1	<5.0	<b>30.4</b>	<5.0	28.6	15.0	13.7	<100	<10.0	<100	<50.0
DW-1	04/04/2022	<0.020	<5.0	<100	<5.0	<5.0	<200	<10.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10.0	<5.0	<100	<10.0	<100	<50.0
DW-2	04/04/2022	<0.020	<5.0	<100	<5.0	<5.0	<200	<10.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10.0	<5.0	<100	<10.0	<100	<50.0
FB	04/04/2022	<0.020	<5.0	<100	<5.0	<5.0	<200	<10.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10.0	<5.0	<100	<10.0	<100	<50.0
MW-10	04/04/2022	<0.020	<5.0	<100	<5.0	<5.0	<200	<10.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10.0	<5.0	<100	<10.0	<100	<50.0
MW-1R	04/04/2022	<0.020	<5.0	<100	<5.0	<5.0	<200	<10.0	24.1	<5.0	<b>30.4</b>	<5.0	25.4	13.4	12.0	<100	<10.0	<100	<50.0
MW-2	04/04/2022	<b>0.82</b>	<125	<2500	<b>237</b>	<125	<5000	<250	<b>739</b>	<125	<b>285</b>	<b>2900</b>	5030	3140	1890	<2500	<250	<2500	<1250
MW-5	04/04/2022	<0.020	<5.0	<100	<5.0	<5.0	<200	<10.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10.0	<5.0	<100	<10.0	<100	<50.0
MW-6	04/04/2022	<0.020	<5.0	<100	<5.0	<5.0	<200	<10.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10.0	<5.0	<100	<10.0	<100	<50.0
MW-7	04/04/2022	<0.021	<5.0	<100	<5.0	<5.0	<200	<10.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10.0	<5.0	<100	<10.0	<100	<50.0
MW-8	04/04/2022	<0.020	<5.0	<100	<5.0	<5.0	<200	<10.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10.0	<5.0	<100	<10.0	<100	<50.0
MW-9	04/04/2022	<0.020	<5.0	<100	<5.0	<5.0	<200	<10.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10.0	<5.0	<100	<10.0	<100	<50.0
SW-1	04/04/2022	<0.020	<5.0	<100	<5.0	<5.0	<200	<10.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10.0	<5.0	<100	<10.0	<100	<50.0
SW-2	04/04/2022	<0.020	<5.0	<100	<5.0	<5.0	<200	<10.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10.0	<5.0	<100	<10.0	<100	<50.0
SW-3	04/04/2022	<0.020	<5.0	<100	<5.0	<5.0	<200	<10.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10.0	<5.0	<100	<10.0	<100	<50.0
TB	04/04/2022	N/A	<5.0	<100	<5.0	<5.0	<200	<10.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10.0	<5.0	<100	<10.0	<100	<50.0
South Carolina RBSL for Groundwater		0.05	5	N/A	5	150	10000	47	700	40	25	1000	10000	N/A	N/A	240	128	1400	N/A
South Carolina Action Levels for Groundwater		N/A	N/A	N/A	N/A	150	10000	47	N/A	N/A	N/A	N/A	N/A	N/A	N/A	240	128	1400	N/A

NOTES:  
 ND = Not Detected  
 ft. BGS = feet below ground surface  
 mg/L = milligrams per liter  
 ug/L = micrograms per liter  
**Bold data above the RBSL (Risk Based Screening Level)**

Table # 1A  
 Summary of Analytical Results - Water Samples  
 Steady Simmons  
 Facility ID# 18856

Analytical Method		EPA 504.1			EPA 524.2								EPA 8260D							
Sample ID	Constituent of Concern	1,2,3-Trichloropropane	1,2-Dibromo-3-chloropropane	1,2-Dibromoethane (EDB)	1,2-Dichloroethane	Benzene	Ethylbenzene	Methyl-tert-butyl ether	Naphthalene	Toluene	m&p-Xylene	o-Xylene	3,3-Dimethyl-1-Butanol	Diisopropyl ether	Ethanol	Ethyl-tert-butyl ether	tert-Amyl Alcohol	tert-Amylmethyl ether	tert-Butyl Alcohol	tert-Butyl Formate
	Date Collected (mm/dd/yy)	ug/L	ug/L	ug/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
WSW DUP	04/04/2022	<0.049	<0.049	<0.020	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.0010	<0.00050	<100	<1.0	<200	<10.0	<100	<10.0	<100	<50.0
WSW TB	04/04/2022	N/A	N/A	N/A	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.0010	<0.00050	<100	<1.0	<200	<10.0	<100	<10.0	<100	<50.0
WSW-1	04/04/2022	<0.050	<0.050	<0.020	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.0010	<0.00050	<100	<1.0	<200	<10.0	<100	<10.0	<100	<50.0
WSW-2	04/04/2022	<0.051	<0.051	<0.021	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.0010	<0.00050	<100	<1.0	<200	<10.0	<100	<10.0	<100	<50.0
WSW-4	04/04/2022	<0.052	<0.052	<0.021	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.0010	<0.00050	<100	<1.0	<200	<10.0	<100	<10.0	<100	<50.0
WSW-5	04/04/2022	<0.051	<0.051	<0.020	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.0010	<0.00050	<100	<1.0	<200	<10.0	<100	<10.0	<100	<50.0
WSW-9	04/04/2022	<0.051	<0.051	<0.020	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.0010	<0.00050	<100	<1.0	<200	<10.0	<100	<10.0	<100	<50.0
WSW-FB	04/04/2022	<0.050	<0.050	<0.020	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	0.00057	<0.0010	<0.00050	<100	<1.0	<200	<10.0	<100	<10.0	<100	<50.0
South Carolina RBSL for Groundwater		N/A	N/A	0.05	0.005	0.005	0.7	0.04	0.025	1	N/A	N/A	N/A	150	10000	47	240	128	1400	N/A
South Carolina Action Levels for Groundwater		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	150	10000	47	240	128	1400	N/A

NOTES:  
 ND = Not Detected  
 ft. BGS = feet below ground surface  
 mg/L = milligrams per liter  
 ug/L = micrograms per liter  
**Bold data above the RBSL (Risk Based Screening Level)**

**TABLE 2**  
**Site Activity Summary**



UST Permit #: 18856  
 Facility Name: Steady Simmons  
 County: Jasper  
 Field Personnel: J. Canavan, M. Funderburke

Sample ID	Sampled?	Date	Time	Screened Interval	Depth to Product (ft)	Depth to Water (ft)	Product Thickness (ft)	TOC Elevation	Groundwater Elevation	Initial DO (mg/l)	# Gals. Purged	Comments
MW-1R	Y	4/4/22	10:59	7-17	***	5.31	***	69.69	64.38	1.55	10.00	Strong Odor / Duplicated as DUP-1
MW-2	Y	4/4/22	10:37	7-17	***	8.21	***	70.10	61.89	1.20	7.50	Odor
MW-3	N	4/4/22	ABN.	7-17	***	ABN.	***	68.59	ABN.	ABN.	0.00	ABN. = Well Abandoned
MW-4	N	4/4/22	ABN.	7-17	***	ABN.	***	67.95	ABN.	ABN.	0.00	ABN. = Well Abandoned
MW-5	Y	4/4/22	10:20	5-15	***	9.54	***	71.78	62.24	5.01	4.50	No Odor
MW-6	Y	4/4/22	10:08	5-15	***	9.49	***	71.47	61.98	4.53	4.50	No Odor
MW-7	Y	4/4/22	9:45	5-15	***	9.23	***	71.27	62.04	3.64	5.00	No Odor
MW-8	Y	4/4/22	9:35	5-15	***	8.78	***	70.90	62.12	2.03	5.50	No Odor
MW-9	Y	4/4/22	9:20	5-15	***	8.29	***	70.70	62.41	3.20	5.50	No Odor
MW-10	Y	4/4/22	11:25	5-15	***	5.39	***	66.65	61.26	0.90	8.00	No Odor
MW-11	N	4/4/22	ABN.	5-15	***	ABN.	***	67.16	ABN.	ABN.	0.00	ABN. = Well Abandoned
MW-12	N	4/4/22	ABN.	5-15	***	ABN.	***	67.18	ABN.	ABN.	0.00	ABN. = Well Abandoned
MW-13	N	4/4/22	ABN.	5-15	***	ABN.	***	68.50	ABN.	ABN.	0.00	ABN. = Well Abandoned
MW-14	N	4/4/22	ABN.	5-15	***	ABN.	***	70.14	ABN.	ABN.	0.00	ABN. = Well Abandoned
MW-15	N	4/4/22	ABN.	10-20	***	ABN.	***	70.01	ABN.	ABN.	0.00	ABN. = Well Abandoned
											50.50	<b>TOTAL GALLONS PURGED</b>

**TABLE 2**  
**Site Activity Summary**



**UST Permit #:** 18856  
**Facility Name:** Steady Simmons  
**County:** Jasper  
**Field Personnel:** M. Funderburk, C. Hansen

Sample ID	Sampled?	Date	Time	Screened Interval	Depth to Product (ft)	Depth to Water (ft)	Product Thickness (ft)	TOC Elevation	Groundwater Elevation	Initial DO (mg/l)	# Gals. Purged	Comments
MW-16	N	4/4/22	ABN.	10-20	***	ABN.	***	71.65	ABN.	ABN.	0.00	ABN. = Well Abandoned
MW-17	N	4/4/22	ABN.	4-14	***	ABN.	***	68.16	ABN.	ABN.	0.00	ABN. = Well Abandoned
DW-1	Y	4/4/22	10:11	35-40	***	7.63	***	70.95	63.32	4.69	26.50	No Odor
DW-2	Y	4/4/22	9:39	35-40	***	9.91	***	70.89	60.98	4.29	25.00	No Odor
DW-3	N	4/4/22	ABN.	35-40	***	ABN.	***	67.20	ABN.	ABN.	0.00	ABN. = Well Abandoned
DW-4	N	4/4/22	ABN.	33-38	***	ABN.	***	67.51	ABN.	ABN.	0.00	ABN. = Well Abandoned
DW-5	N	4/4/22	ABN.	33-38	***	ABN.	***	70.02	ABN.	ABN.	0.00	ABN. = Well Abandoned
DW-6	N	4/4/22	ABN.	31-36	***	ABN.	***	71.41	ABN.	ABN.	0.00	ABN. = Well Abandoned
DW-7	N	4/4/22	ABN.	31-36	***	ABN.	***	69.82	ABN.	ABN.	0.00	ABN. = Well Abandoned
DW-8	N	4/4/22	ABN.	35-40	***	ABN.	***	67.83	ABN.	ABN.	0.00	ABN. = Well Abandoned
SW-1	Y	4/4/22	11:36	***	***	***	***	***	***	***	***	Collected from Pond (32.692095,-81.028624)
SW-2	Y	4/4/22	11:39	***	***	***	***	***	***	***	***	Collected from Pond (32.642192,-81.029035)
SW-3	Y	4/4/22	11:52	***	***	***	***	***	***	***	***	Collected from Pond (32.93831,-81.030328)
DUP-1	Y	4/4/22	10:59	***	***	***	***	***	***	***	***	Duplicate of MW-1R
Field Blank	Y	4/4/22	11:42	***	***	***	***	***	***	***	***	Field Blank
											51.50	<b>TOTAL GALLONS PURGED</b>

**TABLE 2**  
**Site Activity Summary**



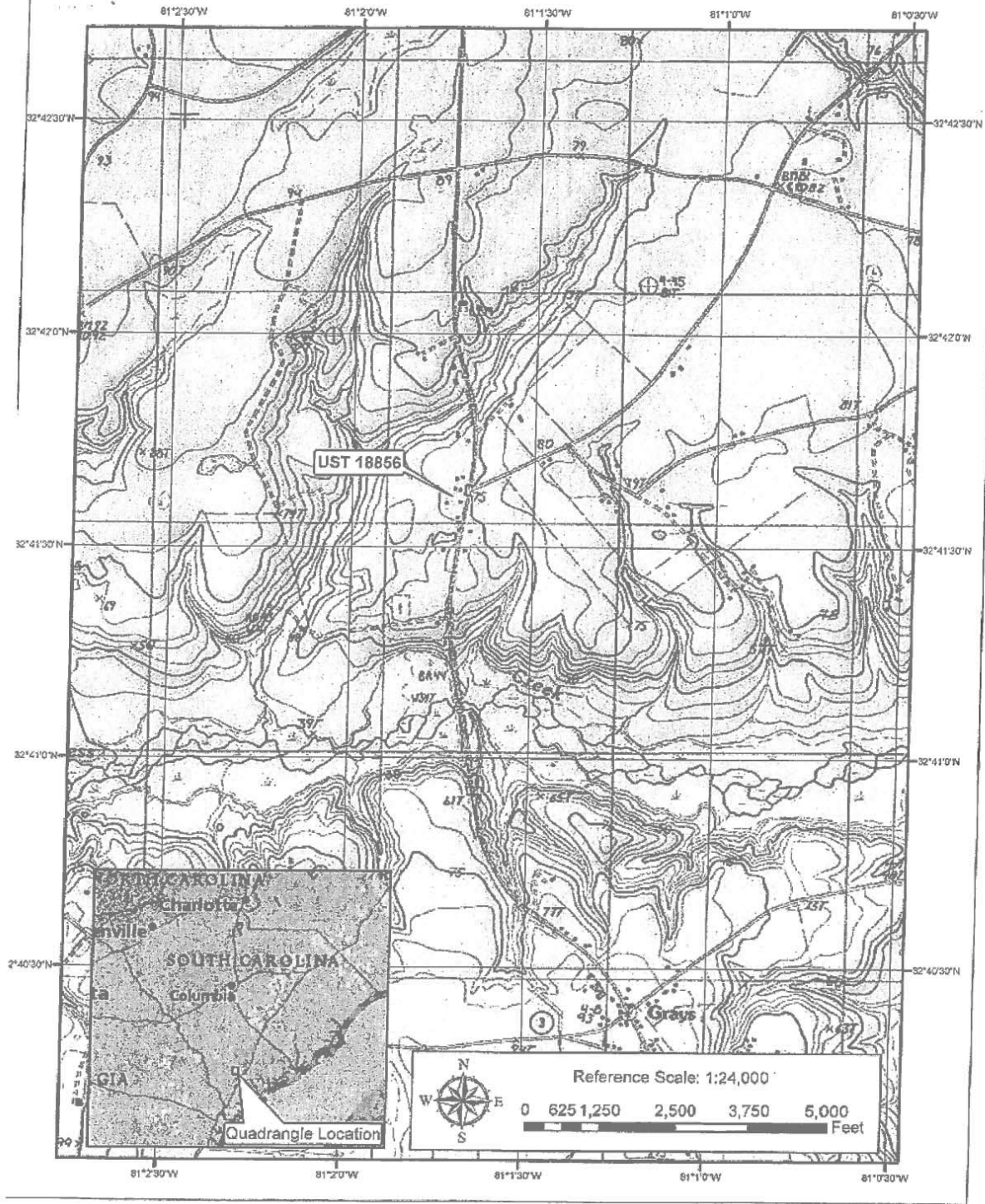
UST Permit #: 18856  
 Facility Name: Steady Simmons  
 County: Jasper  
 Field Personnel: M. Funderburk, C. Hansen

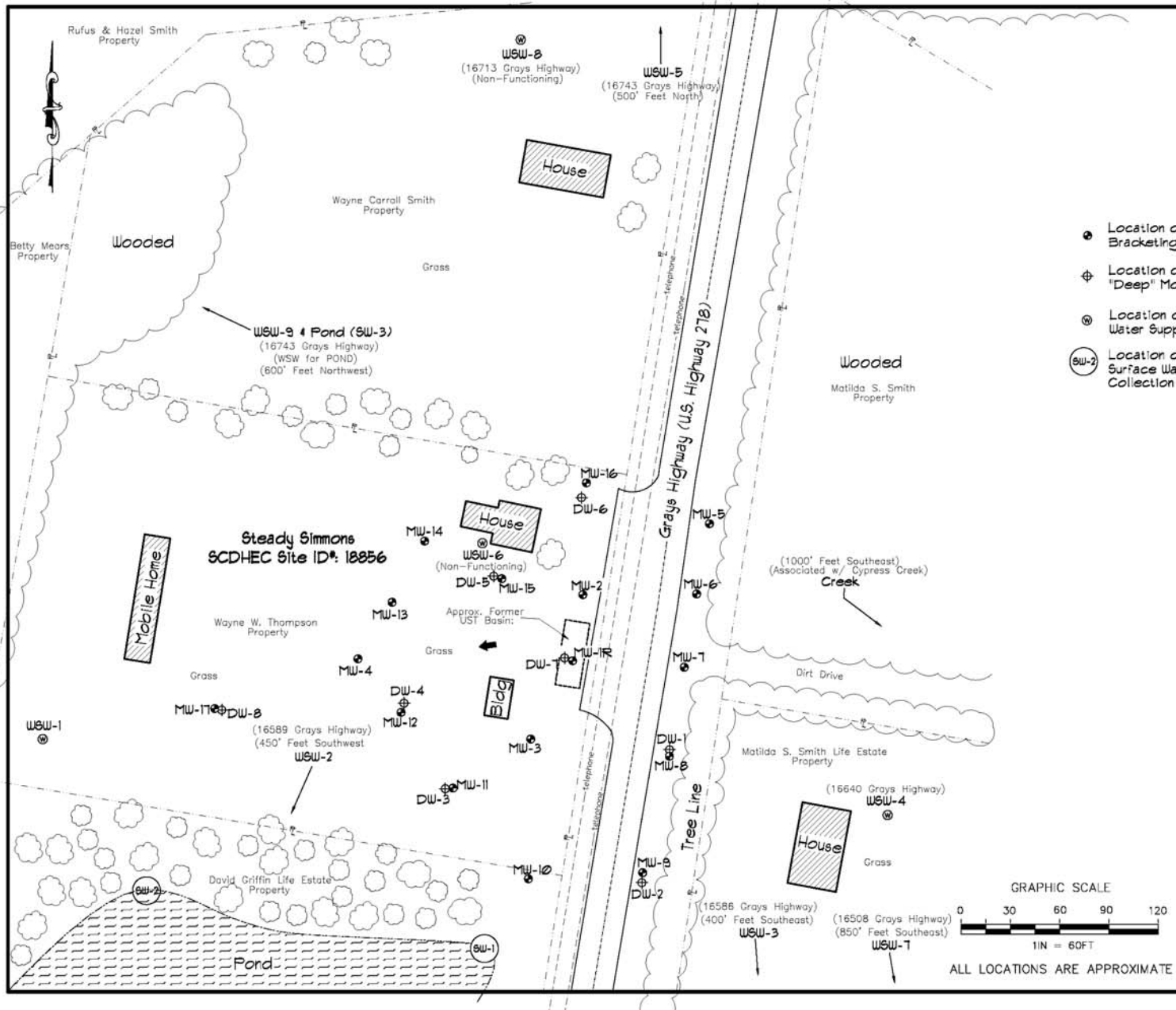
Sample ID	Sampled?	Date	Time	Screened Interval	Depth to Product (ft)	Depth to Water (ft)	Product Thickness (ft)	TOC Elevation	Groundwater Elevation	Initial DO (mg/l)	# Gals. Purged	Comments
Trip Blank	Y	4/4/22	8:00	***	***	***	***	***	***	***	***	Trip Blank
WSW-1	Y	4/4/22	12:21	***	***	***	***	***	***	***	***	White Trailer on Onsite, Sampled Collected From Spigot on Well (32.692556, -81.029429)
WSW-2	Y	4/4/22	12:28	***	***	***	***	***	***	***	***	16589 Grays Highway, Sample Collected from Spigot on Well House (32.692016, -81.029713)
WSW-3	N	4/4/22	NS	***	***	***	***	***	***	***	***	16586 Grays Highway (32.691472, -81.027875) / Denied Access to Sample
WSW-4	Y	4/4/22	12:35	***	***	***	***	***	***	***	***	16640 Grays Highway, Denied Access to Sample
WSW-5	Y	4/4/22	12:13	***	***	***	***	***	***	***	***	Sample collected from Spigot on WSW (32.693831, -81.030328)
WSW-6	N	4/4/22	NS	***	***	***	***	***	***	***	***	Not Operational, Onsite
WSW-7	N	4/4/22	NS	***	***	***	***	***	***	***	***	Well Has been Removed
WSW-8	N	4/4/22	NS	***	***	***	***	***	***	***	***	Not Operational / No Resident / 16713 Grays Highway
WSW-9	Y	4/4/22	12:18	***	***	***	***	***	***	***	***	16743 Grays Highway / Sample collected from Spigot on WSW (32.693878, -81.028554)
WSW-DUP	Y	4/4/22	12:13	***	***	***	***	***	***	***	***	Duplicate Sample of WSW-5
Field Blank WSW	Y	4/4/22	12:01	***	***	***	***	***	***	***	***	Field Blank WSW
Trip Blank WSW	Y	4/4/22	8:00	***	***	***	***	***	***	***	***	Trip Blank WSW
											0.00	<b>TOTAL GALLONS PURGED</b>



## FIGURES

# Steady Simmons UST Permit 18856



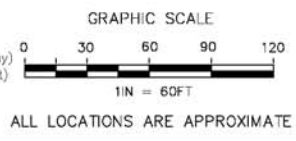


**Explanation:**

- Location of Watertable Bracketing Monitoring Well
- ⊕ Location of Double Cased "Deep" Monitoring Well
- ⊙ Location of Water Supply Well
- ⊙ (SU-2) Location of Surface Water Sample Collection
- ↑ Estimated Groundwater Flow Direction
- Estimated Location of Removed Underground Storage Tanks
- Property Line
- Under Ground Telephone
- Pond Edge

Drawing Based on MECI Field Notes, Tax Maps, RLS Survey of the Site by Jay S. Joshi dated December 7, 2011, and Figure 2 by Crawford Environmental Services.

<b>Site Base Map</b>	
<b>Steady Simmons</b> 16661 Grays Highway Early Branch, South Carolina SCDHEC Site ID 18056	
	JOB NO. 22-7903 DATE April 4, 2022 FIGURE <b>2</b>



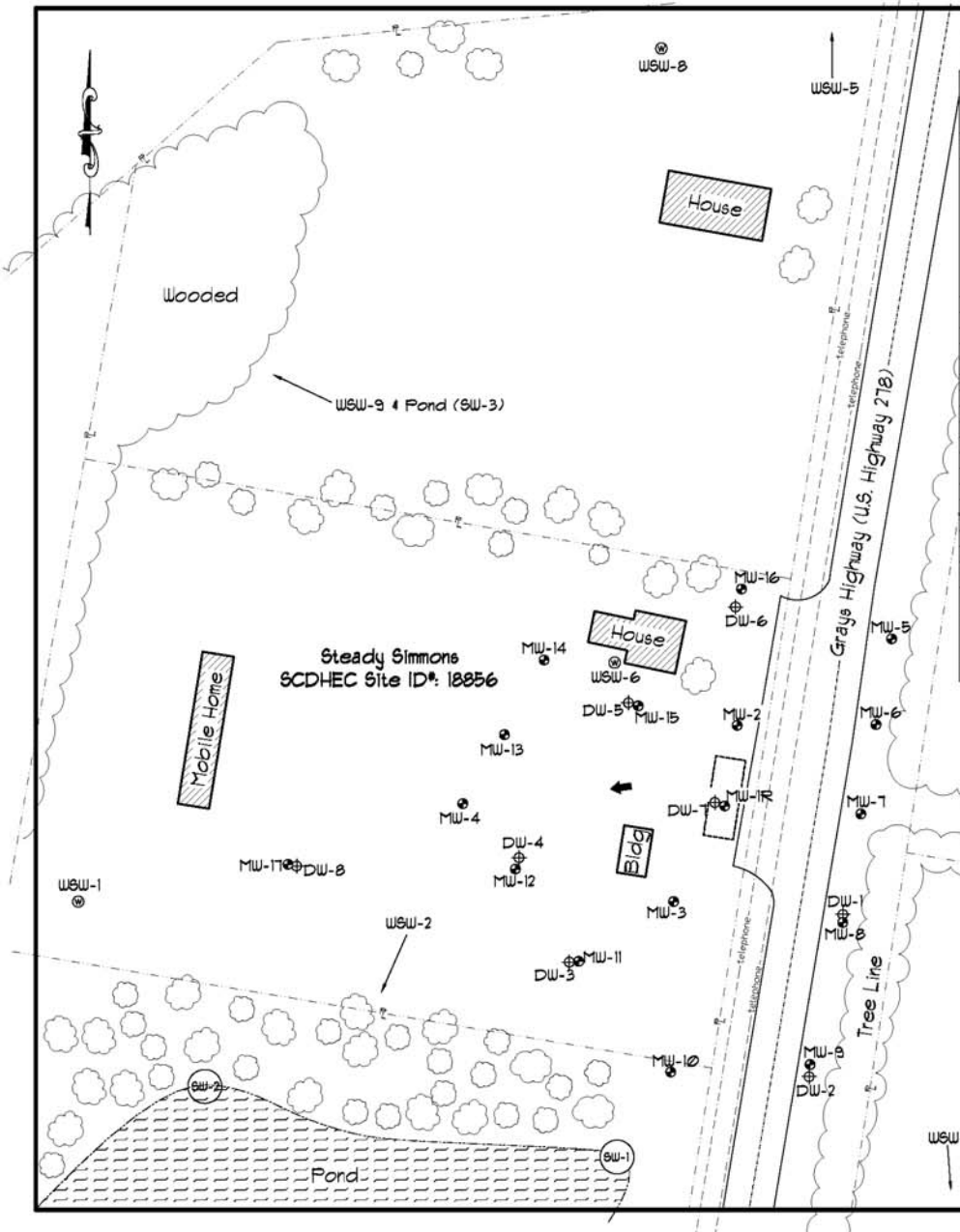


Table # 1  
Summary of Analytical Results - Water Samples  
Steady Simmons  
Facility ID# 18856

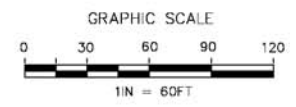
Sample ID	Analytical Method	Constituent of Concern	EPA 8260D																	
			1,2-Dibromethane (ED)	1,2-Dichloroethane	3,3-Dimethyl-1-Butanol	Benzene	Diisopropyl ether	Ethanol	Ethyl-tert-butyl ether	Ethylbenzene	Methyl-tert-butyl ether	Naphthalene	Toluene	Xylene (Total)	m,p-Xylene	o-Xylene	tert-Amyl Alcohol	tert-Amylmethyl ether	tert-Butyl Alcohol	tert-Butyl Formate
Date Collected (mm/dd/yyyy)	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
DUP	04/04/2022	<0.019	<5.0	<100	<5.0	<5.0	<200	<10.0	26.1	<5.0	<b>30.4</b>	<5.0	28.6	15.0	13.7	<100	<10.0	<100	<50.0	
DW-1	04/04/2022	<0.020	<5.0	<100	<5.0	<5.0	<200	<10.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10.0	<5.0	<100	<10.0	<100	<50.0
DW-2	04/04/2022	<0.020	<5.0	<100	<5.0	<5.0	<200	<10.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10.0	<5.0	<100	<10.0	<100	<50.0
FB	04/04/2022	<0.020	<5.0	<100	<5.0	<5.0	<200	<10.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10.0	<5.0	<100	<10.0	<100	<50.0
MW-10	04/04/2022	<0.020	<5.0	<100	<5.0	<5.0	<200	<10.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10.0	<5.0	<100	<10.0	<100	<50.0
MW-1R	04/04/2022	<0.020	<5.0	<100	<5.0	<5.0	<200	<10.0	24.1	<5.0	<b>30.4</b>	<5.0	25.4	13.4	12.0	<100	<10.0	<100	<50.0	
MW-2	04/04/2022	<b>0.82</b>	<125	<2500	<b>237</b>	<125	<5000	<250	<b>739</b>	<125	<b>285</b>	<b>2900</b>	5030	3140	1890	<2500	<250	<2500	<1250	
MW-5	04/04/2022	<0.020	<5.0	<100	<5.0	<5.0	<200	<10.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10.0	<5.0	<100	<10.0	<100	<50.0
MW-6	04/04/2022	<0.020	<5.0	<100	<5.0	<5.0	<200	<10.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10.0	<5.0	<100	<10.0	<100	<50.0
MW-7	04/04/2022	<0.021	<5.0	<100	<5.0	<5.0	<200	<10.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10.0	<5.0	<100	<10.0	<100	<50.0
MW-8	04/04/2022	<0.020	<5.0	<100	<5.0	<5.0	<200	<10.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10.0	<5.0	<100	<10.0	<100	<50.0
MW-9	04/04/2022	<0.020	<5.0	<100	<5.0	<5.0	<200	<10.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10.0	<5.0	<100	<10.0	<100	<50.0
SW-1	04/04/2022	<0.020	<5.0	<100	<5.0	<5.0	<200	<10.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10.0	<5.0	<100	<10.0	<100	<50.0
SW-2	04/04/2022	<0.020	<5.0	<100	<5.0	<5.0	<200	<10.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10.0	<5.0	<100	<10.0	<100	<50.0
SW-3	04/04/2022	<0.020	<5.0	<100	<5.0	<5.0	<200	<10.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10.0	<5.0	<100	<10.0	<100	<50.0
TB	04/04/2022	N/A	<5.0	<100	<5.0	<5.0	<200	<10.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10.0	<5.0	<100	<10.0	<100	<50.0
South Carolina RBSL for Groundwater			0.05	5	N/A	5	150	10000	47	700	40	25	1000	10000	N/A	N/A	240	128	1400	N/A
South Carolina Action Levels for Groundwater			N/A	N/A	N/A	N/A	150	10000	47	N/A	N/A	N/A	N/A	N/A	N/A	240	128	1400	N/A	

NOTES:  
 ND = Not Detected  
 ft. BGS = feet below ground surface  
 mg/L = milligrams per liter  
 ug/L = micrograms per liter  
 Bold data above the RBSL (Risk Based Screening Level)

Drawing Based on MECI Field Notes, Tax Maps, RLS Survey of the Site by Jay S. Joshi dated December 7, 2011, and Figure 2 by Crawford Environmental Services.

### Groundwater CoC Site Map

Steady Simmons  
 16661 Grays Highway  
 Early Branch, South Carolina  
 SCDHEC Site ID 18856



**Midlands Environmental Consultants, Inc.**

JOB NO. 22-7903  
 DATE April 4, 2022  
 FIGURE 3

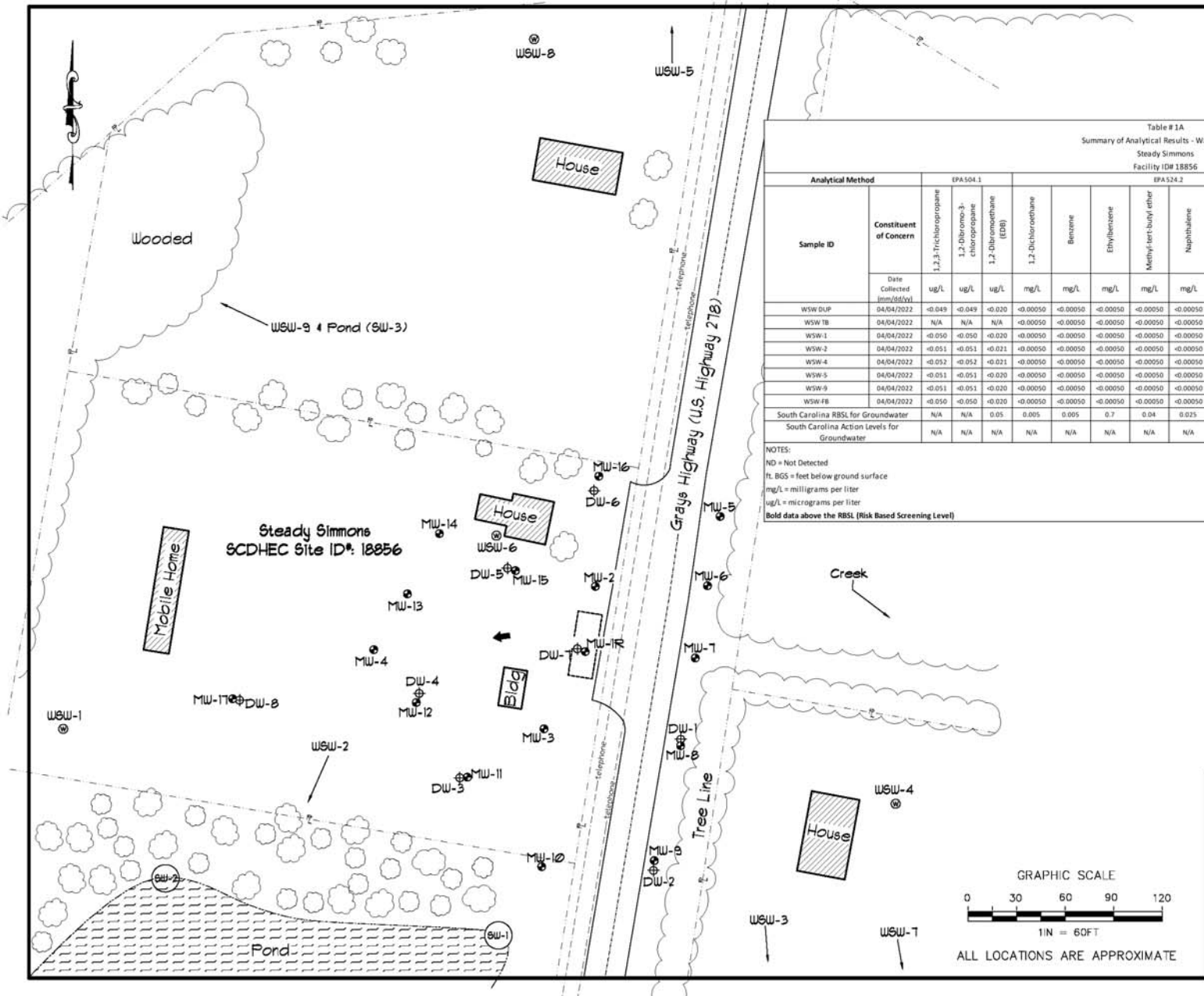


Table # 1A  
Summary of Analytical Results - Water Samples  
Steady Simmons  
Facility ID# 18056

Sample ID	Analytical Method	EPA 504.1				EPA 524.2								EPA 8260D							
		1,2,3-Trichloropropane	1,2-Dichloro-3-chloropropane	1,2-Dichloroethane (ED)	1,2-Dichloroethane	Benzene	Ethylbenzene	Methyl-tert-butyl ether	Naphthalene	Toluene	m,p-Xylene	o-Xylene	3,3-Dimethyl-1-Butanol	Diisopropyl ether	Ethanol	Ethyl-tert-butyl ether	tert-Amyl Alcohol	tert-Amylmethyl ether	tert-Butyl Alcohol	tert-Butyl Formate	
Date Collected (mm/dd/yy)	Constituent of Concern	ug/L	ug/L	ug/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	
WSW DUP		04/04/2022	<0.049	<0.049	<0.020	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	
WSW TB		04/04/2022	N/A	N/A	N/A	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	
WSW-1		04/04/2022	<0.050	<0.050	<0.020	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	
WSW-2		04/04/2022	<0.051	<0.051	<0.021	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	
WSW-4		04/04/2022	<0.052	<0.052	<0.021	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	
WSW-5		04/04/2022	<0.051	<0.051	<0.020	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	
WSW-9		04/04/2022	<0.051	<0.051	<0.020	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	
WSW-FB		04/04/2022	<0.050	<0.050	<0.020	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	0.00057	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	
South Carolina RBSL for Groundwater			N/A	N/A	0.05	0.005	0.005	0.005	0.7	0.04	0.025	1	N/A	N/A	150	10000	47	240	128	1400	N/A
South Carolina Action Levels for Groundwater			N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	150	10000	47	240	128	1400	N/A

NOTES:  
 ND = Not Detected  
 ft. BGS = feet below ground surface  
 mg/L = milligrams per liter  
 ug/L = micrograms per liter  
 Bold data above the RBSL (Risk Based Screening Level)

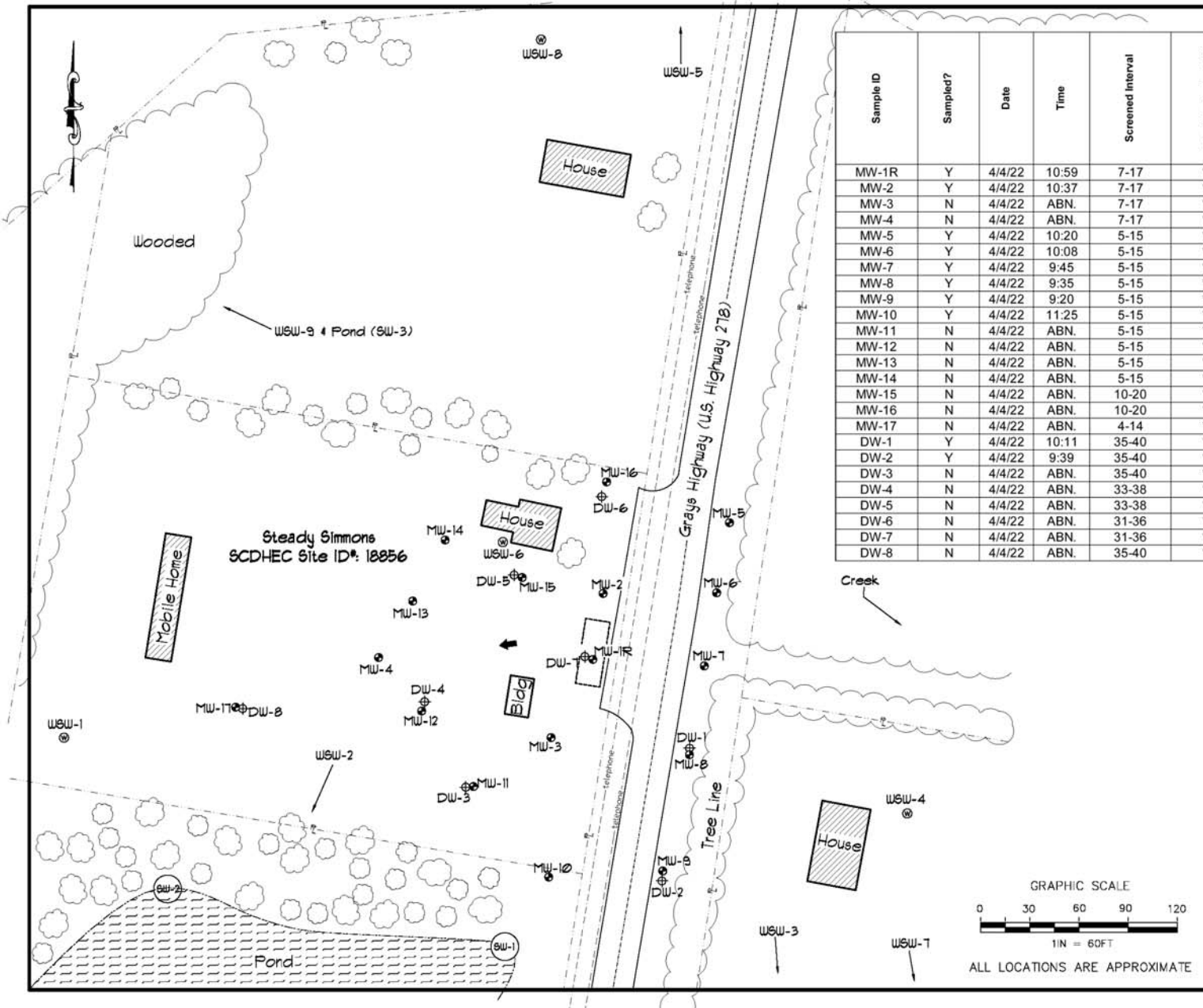
Drawing Based on MECI Field Notes, Tax Maps, RLS Survey of the Site by Jay S. Joshi dated December 7, 2011, and Figure 2 by Crawford Environmental Services.

**Groundwater CoC Site Map**  
(Water Supply Wells)

Steady Simmons  
16661 Grays Highway  
Early Branch, South Carolina  
SCDHEC Site ID 18056

**Midlands Environmental Consultants, Inc.**

JOB NO. 22-7903  
DATE April 4, 2022  
FIGURE 3A



Sample ID	Sampled?	Date	Time	Screened Interval	Depth to Product (ft)	Depth to Water (ft)	Product Thickness (ft)	TOC Elevation	Groundwater Elevation
MW-1R	Y	4/4/22	10:59	7-17	***	5.31	***	69.69	64.38
MW-2	Y	4/4/22	10:37	7-17	***	8.21	***	70.10	61.89
MW-3	N	4/4/22	ABN.	7-17	***	ABN.	***	68.59	ABN.
MW-4	N	4/4/22	ABN.	7-17	***	ABN.	***	67.95	ABN.
MW-5	Y	4/4/22	10:20	5-15	***	9.54	***	71.78	62.24
MW-6	Y	4/4/22	10:08	5-15	***	9.49	***	71.47	61.98
MW-7	Y	4/4/22	9:45	5-15	***	9.23	***	71.27	62.04
MW-8	Y	4/4/22	9:35	5-15	***	8.78	***	70.90	62.12
MW-9	Y	4/4/22	9:20	5-15	***	8.29	***	70.70	62.41
MW-10	Y	4/4/22	11:25	5-15	***	5.39	***	66.65	61.26
MW-11	N	4/4/22	ABN.	5-15	***	ABN.	***	67.16	ABN.
MW-12	N	4/4/22	ABN.	5-15	***	ABN.	***	67.18	ABN.
MW-13	N	4/4/22	ABN.	5-15	***	ABN.	***	68.50	ABN.
MW-14	N	4/4/22	ABN.	5-15	***	ABN.	***	70.14	ABN.
MW-15	N	4/4/22	ABN.	10-20	***	ABN.	***	70.01	ABN.
MW-16	N	4/4/22	ABN.	10-20	***	ABN.	***	71.65	ABN.
MW-17	N	4/4/22	ABN.	4-14	***	ABN.	***	68.16	ABN.
DW-1	Y	4/4/22	10:11	35-40	***	7.63	***	70.95	63.32
DW-2	Y	4/4/22	9:39	35-40	***	9.91	***	70.89	60.98
DW-3	N	4/4/22	ABN.	35-40	***	ABN.	***	67.20	ABN.
DW-4	N	4/4/22	ABN.	33-38	***	ABN.	***	67.51	ABN.
DW-5	N	4/4/22	ABN.	33-38	***	ABN.	***	70.02	ABN.
DW-6	N	4/4/22	ABN.	31-36	***	ABN.	***	71.41	ABN.
DW-7	N	4/4/22	ABN.	31-36	***	ABN.	***	69.82	ABN.
DW-8	N	4/4/22	ABN.	35-40	***	ABN.	***	67.83	ABN.

Drawing Based on MECI Field Notes, Tax Maps, RLS Survey of the Site by Jay S. Joshi dated December 7, 2011, and Figure 2 by Crawford Environmental Services.

**Potentiometric Data Site Map**

Steady Simmons  
16661 Grays Highway  
Early Branch, South Carolina  
SCDHEC Site ID 18056

GRAPHIC SCALE

1 IN = 60 FT

ALL LOCATIONS ARE APPROXIMATE

JOB NO. 22-7903

DATE April 4, 2022

FIGURE 4

**Midlands Environmental Consultants, Inc.**

**APPENDIX A:**

**SAMPLING LOGS, LABORATORY DATA SHEETS, & CHAIN-OF-CUSTODY FORMS**

# Monitoring Well Purge And Sampling Data

Field Personnel: JC, MF  
 Sampling Date(s): 4/4/22  
 Sampling Case#: #2

Job Name: Steady Simmons  
 Job Number: 22-7803

Calibration Data for:  
 Calibration Successful? Yes Yes or No (Please Circle)  
 pH: Yes No  
 Conductivity: Yes No  
 Dissolved Oxygen: Yes No  
 Turbidity: Conductivity Calibrated Every 3 Months by QA Manager

Well No.	Purge Volume	Sample Time	pH(i)	cond(i)	Temp. (°C)	DO (mg/l)	Turbidity (NTU)	Depth to (feet):			Well Depth (feet)	Water Height *(feet)	Gallons Purged		Notes
								product	initial H <sub>2</sub> O	final H <sub>2</sub> O			**calc.	actual	
Dupl MW-1R	Initial	10:38	5.53	63.4	18.7	1.55	26.41	5.31	-	7	11.69	1.90	10	Dupl Strong odor	
	1st	10:46	5.51	69.3	18.1	1.49	29.11								
	2nd	10:49	5.63	78.4	18.8	1.36	36.29								
	3rd	10:53	5.57	76.8	18.3	1.43	42.53								
	4th	10:57	5.68	103.9	18.5	1.51	31.02								
	5th	10:59	5.74	113.1	18.7	1.58	22.93								
Sampling															
MW-2	Initial	10:23	4.47	46.6	19.7	1.20	19.46	8.21	-	7	8.79	1.93	7.5	odor	
	1st	10:26	4.80	48.3	19.7	1.23	21.53								
	2nd	10:29	4.52	52.9	19.7	1.20	24.18								
	3rd	10:32	4.67	49.6	20.2	1.28	27.53								
	4th	10:35	4.96	51.3	20.3	1.24	23.01								
	5th	10:37	5.01	50.8	20.2	1.19	21.56								
Sampling															
MW-5	Initial	10:05	4.85	50.4	18.8	5.01	29.53	9.54	-	5	5.46	1.88	4.5	no odor	
	1st	10:08	4.76	50.1	18.8	5.03	28.12								
	2nd	10:41	4.15	50.8	18.9	5.11	34.57								
	3rd	10:13	4.88	51.2	19.1	5.67	50.68								
	4th	10:16	4.53	50.6	19.2	5.49	47.03								
	5th	10:20	4.28	49.2	19.1	5.07	30.53								
Sampling															
MW-6	Initial	9:48	4.91	41.0	18.7	4.53	17.88	9.49	-	5	5.51	1.89	4.5	no odor	
	1st	9:52	4.83	43.8	18.3	4.57	19.13								
	2nd	9:55	4.93	42.6	18.5	4.68	19.27								
	3rd	9:59	4.87	48.5	18.6	4.29	23.98								
	4th	10:03	4.88	50.4	18.7	4.56	19.12								
	5th	10:08	4.92	52.7	18.9	4.11	17.93								
Sampling															

\* = (Depth of Well) - (Depth to Water) = Water Height

One Well Volume = x.047 for 1" wells \* x .163 for 2" wells, or \* x .66 for 4" wells, 1.469 for 6" wells

\*\* = One Well Volume x 5 = Gallons Purged (calculated)

Casing	Gallons
1"	0.047
2"	0.163
4"	0.653
6"	1.469

Sampling Case#	pH/Conductance SN	DO SN	Turbidity
Case #1	15H101448	17E101302	201301183
Case #2	15E101481	14H103098	201301174
Case #3	17E100512	17E103488	201510251



# Monitoring Well Purge And Sampling Data

Field Personnel: JC, MF

Sampling Date(s): 4/4/22

Sampling Case#: #2

Job Name: Steady Simmons

Job Number: 22-7803

### Calibration Data for:

Calibration Successful?  Yes or No (Please Circle)  
 pH:  Yes  No  
 Conductivity:  Yes  No  
 Dissolved Oxygen:  Yes  No  
 Turbidity:  Conductivity  Calibrated Every 3 Months by QA Manager

Well No.	Purge Volume	Sample Time	pH(i)	cond(i)	Temp. (°C)	DO (mg/l)	Turbidity (NTU)	Depth to (feet):			Well Depth (feet)	Water Height *(feet)	Gallons Purged		Notes
								product	initial H <sub>2</sub> O	final H <sub>2</sub> O			**calc.	actual	
MW-7	Initial	9:29	9.91	45.1	18.3	3.59	19.67	9.23	5	5.77	.99	5	no odor		
	1st	9:37	4.89	45.2	18.3	3.17	20.01								
	2nd	9:36	4.97	46.1	18.4	3.63	24.80								
	3rd	9:39	4.88	49.3	18.4	3.42	29.61								
	4th	9:42	4.87	49.2	18.3	3.27	30.55								
	5th	9:45	4.92	49.7	18.5	2.93	25.72								
	Sampling														
MW-8	Initial	9:18	4.99	65.5	18.7	2.03	24.15	8.78	5	6.22	1.01	5.5	no odor		
	1st	9:22	4.73	68.2	18.7	2.14	28.10								
	2nd	9:27	4.93	63.1	18.7	2.11	30.59								
	3rd	9:30	5.03	67.4	18.6	2.19	32.37								
	4th	9:32	5.51	69.4	18.9	2.76	29.93								
	5th	9:35	5.18	70.3	18.8	2.54	21.89								
	Sampling														
MW-9	Initial	9:05	5.70	60.5	17.0	3.20	21.37	8.29	5	6.71	1.09	5.5	no odor		
	1st	9:08	5.69	60.9	17.0	3.15	20.92								
	2nd	9:11	5.72	63.2	18.1	3.32	35.66								
	3rd	9:14	5.63	68.7	18.2	3.56	39.92								
	4th	9:17	5.77	70.2	17.9	3.91	29.46								
	5th	9:20	5.76	70.5	17.8	2.94	29.81								
	Sampling														
MW-10	Initial	11:12	5.47	100.2	19.1	0.90	25.18	5.39	5	9.66	1.57	8	no odor		
	1st	11:13	5.53	101.3	19.2	0.88	29.11								
	2nd	11:17	5.49	107.9	19.3	0.73	30.56								
	3rd	11:20	5.61	108.5	19.4	0.91	34.88								
	4th	11:23	5.58	105.2	19.3	0.76	30.92								
	5th	11:25	5.60	106.1	19.5	0.51	31.53								
	Sampling														

\*= (Depth of Well) - (Depth to Water = Water Height)

One Well Volume = x.047 for 1" wells \* x .163 for 2" wells, or \* x .66 for 4" wells, 1.469 for 6" wells

\*\*= One Well Volume x 5 = Gallons Purged (calculated)

Casing	Gallons
1"	0.047
2"	0.163
4"	0.653
6"	1.469

Sampling Case#	Ph/Conductance SN	DO SN	Turbidity
Case #1	15H101448	17E101302	201301183
Case #2	15E101481	14H103098	201301174
Case #3	17E100512	17E103488	201510251

# Monitoring Well Purge And Sampling Data

Field Personnel: JC, MF  
 Sampling Date(s): 4/4/22  
 Sampling Case#: #2

Job Name: Steady Simmons  
 Job Number: 22-7803

Calibration Data for:  
 Calibration Successful? Yes Yes or No (Please Circle)  
 pH: Yes No  
 Conductivity: Yes No  
 Dissolved Oxygen: Yes No  
 Turbidity: Conductivity Calibrated Every 3 Months by QA Manager

Well No.	Purge Volume	Sample Time	pH(i)	cond(i)	Temp. (°C)	DO (mg/l)	Turbidity (NTU)	Depth to (feet):			Well Depth (feet)	Water Height *(feet)	Gallons Purged		Notes
								product	initial H <sub>2</sub> O	final H <sub>2</sub> O			**calc.	actual	
DW-1	Initial	9:26	5.19	59.2	18.1	4.69	23.15								
	1st	9:36	5.21	60.9	17.6	4.31	29.43								
	2nd	9:44	5.28	61.5	17.2	4.42	35.83								
	3rd	9:49	5.19	65.8	17.3	4.99	36.02								
	4th	9:58	5.26	67.3	17.1	4.50	29.54								
	5th	10:11	5.38	68.4	17.8	4.55	27.16								
	Sampling														
DW-2	Initial	9:00	6.75	67.9	16.7	4.29	19.56								
	1st	9:08	6.59	68.2	16.8	4.40	25.18								
	2nd	9:17	6.27	105.2	16.2	4.25	32.89								
	3rd	9:25	6.48	113.8	16.3	4.31	47.07								
	4th	9:33	6.51	76.1	16.4	4.76	53.18								
	5th	9:39	6.64	79.3	16.9	4.52	35.81								
	Sampling														
SW-1	Initial	11:36	sampled from pond												
	1st														
	2nd														
	3rd														
	5th														
SW-2	Initial	11:39	sampled from pond												
	1st														
	2nd														
	3rd														
	5th														
SW-3	Initial	11:52	sampled from pond												
	1st														
	2nd														
	3rd														
	5th														
DUP	Initial	11:42	TB: 0800												
	1st														
	2nd														
	3rd														
	5th														

\* = (Depth of Well) - (Depth to Water) = Water Height  
 One Well Volume = x.047 for 1" wells, x .163 for 2" wells, or \* x .66 for 4" wells, 1.469 for 6" wells  
 \*\* = One Well Volume x 5 = Gallons Purged (calculated)

Casing	Gallons
1"	0.047
2"	0.163
4"	0.653
6"	1.469

Sampling Case#	Ph/Conductance SN	DO SN	Turbidity
Case #1	15H101448	17E101302	201301183
Case #2	15E101481	14H103098	201301174
Case #3	17E100512	17E103488	201510251

# Monitoring Well Purge And Sampling Data

Field Personnel: JC, MF

Sampling Date(s): 4/4/22

Sampling Case#: #2

Job Name: Steady Simmons

Job Number: 22-7803

### Calibration Data for:

Calibration Successful? Yes or No (Please Circle)  
 pH: Yes No  
 Conductivity: Yes No  
 Dissolved Oxygen: Yes No  
 Turbidity: Conductivity Calibrated Every 3 Months by QA Manager

Well No.	Purge Volume	Sample Time	pH(i)	cond(i)	Temp. (°C)	DO (mg/l)	Turbidity (NTU)	Depth to (feet):			Well Depth (feet)	Water Height *(feet)	Gallons Purged		Notes
								product	initial H <sub>2</sub> O	final H <sub>2</sub> O			**calc.	actual	
WSW-1	Initial														
	1st	12:21		ON site Trailer											
	2nd			Sampled from spigot on well											
WSW-2	3rd														
	4th	12:28	16599	Grays Hwy											
	5th			Spigot on well house											
WSW-3	Sampling														
	Initial														
	1st			Denied Access to well, property owner said they already had have well sampled.											
WSW-4	2nd														
	3rd														
	4th	12:35	16640	Grays Hwy											
WSW-5	5th			Spigot in middle of yard											
	Sampling														
	Initial														
WSW-6	1st	12:13	16713	Grays Hwy											
	2nd			Spigot on well											
	3rd														
WSW-7	4th														
	5th			Non-Functioning											
	Sampling														
WSW-8	Initial														
	1st			Well Removed											
	2nd														
WSW-9	3rd														
	4th			Non-Functioning											
	5th														
	Sampling														

\*= (Depth of Well) - (Depth to Water = Water Height)

One Well Volume = x.047 for 1" wells \* x .163 for 2" wells, or \* x .66 for 4" wells, 1.469 for 6" wells

\*\*= One Well Volume x 5 = Gallons Purged (calculated)

Casing	Gallons
1"	0.047
2"	0.163
4"	0.663
6"	1.469

Sampling Case#	Ph/Conductance SN	DO SN	Turbidity
Case #1	15H101448	17E101302	201301183
Case #2	15E101481	14H103098	201301174
Case #3	17E100512	17E103488	201510251

# Monitoring Well Purge And Sampling Data

Field Personnel: JC, MF  
 Sampling Date(s): 4/4/22  
 Sampling Case#: #2

Job Name: Steady Simmons  
 Job Number: 22-7803

**Calibration Data for:**  
 Calibration Successful? Yes or No (Please Circle)  
 pH: Yes No  
 Conductivity: Yes No  
 Dissolved Oxygen: Yes No  
 Turbidity: Conductivity Calibrated Every 3 Months by QA Manager

Well No.	Purge Volume	Sample Time	pH(i)	cond(i)	Temp. (°C)	DO (mg/l)	Turbidity (NTU)	Depth to (feet):			Well Depth (feet)	Water Height *(feet)	Gallons Purged		Notes
								product	initial H <sub>2</sub> O	final H <sub>2</sub> O			**calc.	actual	
WSW-9	Initial														
	1st	12:18	16.743												
	2nd														
	3rd														
	4th														
	5th														
Sampling															
WSW DWP	Initial														
	1st	12:13													
	2nd														
	3rd														
	4th														
	5th														
Sampling															
WSW FB	Initial														
	1st	12:01													
	2nd														
	3rd														
	4th														
	5th														
Sampling															
WSW TB	Initial														
	1st														
	2nd														
	3rd														
	4th														
	5th														
Sampling															

\* = (Depth of Well) - (Depth to Water) = Water Height  
 One Well Volume = x.047 for 1" wells \* x .163 for 2" wells, or \* x .66 for 4" wells, 1.469 for 6" wells  
 \*\* = One Well Volume x 5 = Gallons Purged (calculated)

Casing	Gallons
1"	0.047
2"	0.163
4"	0.653
6"	1.469

Sampling Case#	pH/Conductance SN	DO SN	Turbidity
Case #1	15H101448	17E101302	201301183
Case #2	15E101481	14H103098	201301174
Case #3	17E100512	17E103488	201510251

April 13, 2022

Arthur Brown  
SCDHEC  
2600 Bull Street  
Columbia, SC 29201

RE: Project: Steady Simmons 18856  
Pace Project No.: 92597842

Dear Arthur Brown:

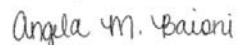
Enclosed are the analytical results for sample(s) received by the laboratory on April 06, 2022. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Charlotte

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Angela Baioni  
angela.baioni@pacelabs.com  
(704)875-9092  
Project Manager

Enclosures

cc: Robert Dunn, SCDHEC



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: Steady Simmons 18856

Pace Project No.: 92597842

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**Pace Analytical Services Charlotte**

South Carolina Laboratory ID: 99006

9800 Kinsey Ave. Ste 100, Huntersville, NC 28078

North Carolina Drinking Water Certification #: 37706

North Carolina Field Services Certification #: 5342

North Carolina Wastewater Certification #: 12

South Carolina Laboratory ID: 99006

South Carolina Certification #: 99006001

South Carolina Drinking Water Cert. #: 99006003

Florida/NELAP Certification #: E87627

Kentucky UST Certification #: 84

Louisiana DoH Drinking Water #: LA029

Virginia/VELAP Certification #: 460221

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## REPORT OF LABORATORY ANALYSIS

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**SAMPLE ANALYTE COUNT**

Project: Steady Simmons 18856  
Pace Project No.: 92597842

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92597842001	WSW-1	EPA 504.1	AP2	4	PASI-C
		EPA 524.2	LMB	10	PASI-C
		EPA 8260D	CL	11	PASI-C
92597842002	WSW-2	EPA 504.1	AP2	4	PASI-C
		EPA 524.2	LMB	10	PASI-C
		EPA 8260D	CL	11	PASI-C
92597842003	WSW-4	EPA 504.1	AP2	4	PASI-C
		EPA 524.2	LMB	10	PASI-C
		EPA 8260D	CL	11	PASI-C
92597842004	WSW-5	EPA 504.1	AP2	4	PASI-C
		EPA 524.2	LMB	10	PASI-C
		EPA 8260D	CL	11	PASI-C
92597842005	WSW-9	EPA 504.1	AP2	4	PASI-C
		EPA 524.2	LMB	10	PASI-C
		EPA 8260D	CL	11	PASI-C
92597842006	WSW DUP	EPA 504.1	AP2	4	PASI-C
		EPA 524.2	LMB	10	PASI-C
		EPA 8260D	CL	11	PASI-C
92597842007	WSW-FB	EPA 504.1	AP2	4	PASI-C
		EPA 524.2	LMB	10	PASI-C
		EPA 8260D	CL	11	PASI-C
92597842008	WSW TB	EPA 524.2	LMB	10	PASI-C
		EPA 8260D	CL	11	PASI-C

PASI-C = Pace Analytical Services - Charlotte

**REPORT OF LABORATORY ANALYSIS**

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### ANALYTICAL RESULTS

Project: Steady Simmons 18856  
Pace Project No.: 92597842

Sample: WSW-1	Lab ID: 92597842001	Collected: 04/04/22 12:21	Received: 04/06/22 11:50	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>504 GCS EDB and DBCP</b>								
Analytical Method: EPA 504.1 Preparation Method: EPA 504.1								
Pace Analytical Services - Charlotte								
1,2-Dibromo-3-chloropropane	ND	ug/L	0.050	1	04/11/22 11:41	04/11/22 13:41	96-12-8	
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	1	04/11/22 11:41	04/11/22 13:41	106-93-4	
1,2,3-Trichloropropane	ND	ug/L	0.050	1	04/11/22 11:41	04/11/22 13:41	96-18-4	
<b>Surrogates</b>								
1-Chloro-2-bromopropane (S)	81	%	70-130	1	04/11/22 11:41	04/11/22 13:41	301-79-56	
<b>524.2 MSV SC List</b>								
Analytical Method: EPA 524.2								
Pace Analytical Services - Charlotte								
Benzene	ND	mg/L	0.00050	1		04/08/22 17:15	71-43-2	
1,2-Dichloroethane	ND	mg/L	0.00050	1		04/08/22 17:15	107-06-2	
Ethylbenzene	ND	mg/L	0.00050	1		04/08/22 17:15	100-41-4	
Methyl-tert-butyl ether	ND	mg/L	0.00050	1		04/08/22 17:15	1634-04-4	
Naphthalene	ND	mg/L	0.00050	1		04/08/22 17:15	91-20-3	
Toluene	ND	mg/L	0.00050	1		04/08/22 17:15	108-88-3	
m&p-Xylene	ND	mg/L	0.0010	1		04/08/22 17:15	179601-23-1	
o-Xylene	ND	mg/L	0.00050	1		04/08/22 17:15	95-47-6	
<b>Surrogates</b>								
1,2-Dichlorobenzene-d4 (S)	88	%	70-130	1		04/08/22 17:15	2199-69-1	
4-Bromofluorobenzene (S)	88	%	70-130	1		04/08/22 17:15	460-00-4	
<b>8260 MSV Low Level SC</b>								
Analytical Method: EPA 8260D								
Pace Analytical Services - Charlotte								
tert-Amyl Alcohol	ND	ug/L	100	1		04/08/22 13:05	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	1		04/08/22 13:05	994-05-8	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	1		04/08/22 13:05	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	1		04/08/22 13:05	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	1		04/08/22 13:05	762-75-4	
Diisopropyl ether	ND	ug/L	1.0	1		04/08/22 13:05	108-20-3	
Ethanol	ND	ug/L	200	1		04/08/22 13:05	64-17-5	
Ethyl-tert-butyl ether	ND	ug/L	10.0	1		04/08/22 13:05	637-92-3	
<b>Surrogates</b>								
4-Bromofluorobenzene (S)	96	%	70-130	1		04/08/22 13:05	460-00-4	
1,2-Dichloroethane-d4 (S)	99	%	70-130	1		04/08/22 13:05	17060-07-0	
Toluene-d8 (S)	98	%	70-130	1		04/08/22 13:05	2037-26-5	

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: Steady Simmons 18856

Pace Project No.: 92597842

Sample: WSW-2	Lab ID: 92597842002	Collected: 04/04/22 12:28	Received: 04/06/22 11:50	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>504 GCS EDB and DBCP</b>								
Analytical Method: EPA 504.1 Preparation Method: EPA 504.1								
Pace Analytical Services - Charlotte								
1,2-Dibromo-3-chloropropane	ND	ug/L	0.051	1	04/11/22 11:41	04/11/22 13:52	96-12-8	
1,2-Dibromoethane (EDB)	ND	ug/L	0.021	1	04/11/22 11:41	04/11/22 13:52	106-93-4	
1,2,3-Trichloropropane	ND	ug/L	0.051	1	04/11/22 11:41	04/11/22 13:52	96-18-4	
<b>Surrogates</b>								
1-Chloro-2-bromopropane (S)	78	%	70-130	1	04/11/22 11:41	04/11/22 13:52	301-79-56	
<b>524.2 MSV SC List</b>								
Analytical Method: EPA 524.2								
Pace Analytical Services - Charlotte								
Benzene	ND	mg/L	0.00050	1		04/08/22 17:41	71-43-2	
1,2-Dichloroethane	ND	mg/L	0.00050	1		04/08/22 17:41	107-06-2	
Ethylbenzene	ND	mg/L	0.00050	1		04/08/22 17:41	100-41-4	
Methyl-tert-butyl ether	ND	mg/L	0.00050	1		04/08/22 17:41	1634-04-4	
Naphthalene	ND	mg/L	0.00050	1		04/08/22 17:41	91-20-3	
Toluene	ND	mg/L	0.00050	1		04/08/22 17:41	108-88-3	
m&p-Xylene	ND	mg/L	0.0010	1		04/08/22 17:41	179601-23-1	
o-Xylene	ND	mg/L	0.00050	1		04/08/22 17:41	95-47-6	
<b>Surrogates</b>								
1,2-Dichlorobenzene-d4 (S)	94	%	70-130	1		04/08/22 17:41	2199-69-1	
4-Bromofluorobenzene (S)	87	%	70-130	1		04/08/22 17:41	460-00-4	
<b>8260 MSV Low Level SC</b>								
Analytical Method: EPA 8260D								
Pace Analytical Services - Charlotte								
tert-Amyl Alcohol	ND	ug/L	100	1		04/08/22 13:23	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	1		04/08/22 13:23	994-05-8	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	1		04/08/22 13:23	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	1		04/08/22 13:23	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	1		04/08/22 13:23	762-75-4	
Diisopropyl ether	ND	ug/L	1.0	1		04/08/22 13:23	108-20-3	
Ethanol	ND	ug/L	200	1		04/08/22 13:23	64-17-5	
Ethyl-tert-butyl ether	ND	ug/L	10.0	1		04/08/22 13:23	637-92-3	
<b>Surrogates</b>								
4-Bromofluorobenzene (S)	97	%	70-130	1		04/08/22 13:23	460-00-4	
1,2-Dichloroethane-d4 (S)	98	%	70-130	1		04/08/22 13:23	17060-07-0	
Toluene-d8 (S)	99	%	70-130	1		04/08/22 13:23	2037-26-5	

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: Steady Simmons 18856  
Pace Project No.: 92597842

Sample: WSW-4	Lab ID: 92597842003	Collected: 04/04/22 12:35	Received: 04/06/22 11:50	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>504 GCS EDB and DBCP</b>								
Analytical Method: EPA 504.1 Preparation Method: EPA 504.1								
Pace Analytical Services - Charlotte								
1,2-Dibromo-3-chloropropane	ND	ug/L	0.052	1	04/11/22 11:41	04/11/22 14:03	96-12-8	
1,2-Dibromoethane (EDB)	ND	ug/L	0.021	1	04/11/22 11:41	04/11/22 14:03	106-93-4	
1,2,3-Trichloropropane	ND	ug/L	0.052	1	04/11/22 11:41	04/11/22 14:03	96-18-4	
<b>Surrogates</b>								
1-Chloro-2-bromopropane (S)	87	%	70-130	1	04/11/22 11:41	04/11/22 14:03	301-79-56	
<b>524.2 MSV SC List</b>								
Analytical Method: EPA 524.2								
Pace Analytical Services - Charlotte								
Benzene	ND	mg/L	0.00050	1		04/08/22 18:07	71-43-2	
1,2-Dichloroethane	ND	mg/L	0.00050	1		04/08/22 18:07	107-06-2	
Ethylbenzene	ND	mg/L	0.00050	1		04/08/22 18:07	100-41-4	
Methyl-tert-butyl ether	ND	mg/L	0.00050	1		04/08/22 18:07	1634-04-4	
Naphthalene	ND	mg/L	0.00050	1		04/08/22 18:07	91-20-3	
Toluene	ND	mg/L	0.00050	1		04/08/22 18:07	108-88-3	
m&p-Xylene	ND	mg/L	0.0010	1		04/08/22 18:07	179601-23-1	
o-Xylene	ND	mg/L	0.00050	1		04/08/22 18:07	95-47-6	
<b>Surrogates</b>								
1,2-Dichlorobenzene-d4 (S)	94	%	70-130	1		04/08/22 18:07	2199-69-1	
4-Bromofluorobenzene (S)	86	%	70-130	1		04/08/22 18:07	460-00-4	
<b>8260 MSV Low Level SC</b>								
Analytical Method: EPA 8260D								
Pace Analytical Services - Charlotte								
tert-Amyl Alcohol	ND	ug/L	100	1		04/08/22 13:41	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	1		04/08/22 13:41	994-05-8	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	1		04/08/22 13:41	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	1		04/08/22 13:41	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	1		04/08/22 13:41	762-75-4	
Diisopropyl ether	ND	ug/L	1.0	1		04/08/22 13:41	108-20-3	
Ethanol	ND	ug/L	200	1		04/08/22 13:41	64-17-5	
Ethyl-tert-butyl ether	ND	ug/L	10.0	1		04/08/22 13:41	637-92-3	
<b>Surrogates</b>								
4-Bromofluorobenzene (S)	98	%	70-130	1		04/08/22 13:41	460-00-4	
1,2-Dichloroethane-d4 (S)	97	%	70-130	1		04/08/22 13:41	17060-07-0	
Toluene-d8 (S)	98	%	70-130	1		04/08/22 13:41	2037-26-5	

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: Steady Simmons 18856  
Pace Project No.: 92597842

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>Sample: WSW-5</b>								
Lab ID: 92597842004 Collected: 04/04/22 12:13 Received: 04/06/22 11:50 Matrix: Water								
Analytical Method: EPA 504.1 Preparation Method: EPA 504.1								
Pace Analytical Services - Charlotte								
504 GCS EDB and DBCP								
1,2-Dibromo-3-chloropropane	ND	ug/L	0.051	1	04/11/22 11:41	04/11/22 14:13	96-12-8	
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	1	04/11/22 11:41	04/11/22 14:13	106-93-4	
1,2,3-Trichloropropane	ND	ug/L	0.051	1	04/11/22 11:41	04/11/22 14:13	96-18-4	
<b>Surrogates</b>								
1-Chloro-2-bromopropane (S)	86	%	70-130	1	04/11/22 11:41	04/11/22 14:13	301-79-56	
524.2 MSV SC List								
Analytical Method: EPA 524.2								
Pace Analytical Services - Charlotte								
Benzene	ND	mg/L	0.00050	1		04/08/22 18:33	71-43-2	
1,2-Dichloroethane	ND	mg/L	0.00050	1		04/08/22 18:33	107-06-2	
Ethylbenzene	ND	mg/L	0.00050	1		04/08/22 18:33	100-41-4	
Methyl-tert-butyl ether	ND	mg/L	0.00050	1		04/08/22 18:33	1634-04-4	
Naphthalene	ND	mg/L	0.00050	1		04/08/22 18:33	91-20-3	
Toluene	ND	mg/L	0.00050	1		04/08/22 18:33	108-88-3	
m&p-Xylene	ND	mg/L	0.0010	1		04/08/22 18:33	179601-23-1	
o-Xylene	ND	mg/L	0.00050	1		04/08/22 18:33	95-47-6	
<b>Surrogates</b>								
1,2-Dichlorobenzene-d4 (S)	93	%	70-130	1		04/08/22 18:33	2199-69-1	
4-Bromofluorobenzene (S)	86	%	70-130	1		04/08/22 18:33	460-00-4	
8260 MSV Low Level SC								
Analytical Method: EPA 8260D								
Pace Analytical Services - Charlotte								
tert-Amyl Alcohol	ND	ug/L	100	1		04/08/22 13:59	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	1		04/08/22 13:59	994-05-8	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	1		04/08/22 13:59	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	1		04/08/22 13:59	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	1		04/08/22 13:59	762-75-4	
Diisopropyl ether	ND	ug/L	1.0	1		04/08/22 13:59	108-20-3	
Ethanol	ND	ug/L	200	1		04/08/22 13:59	64-17-5	
Ethyl-tert-butyl ether	ND	ug/L	10.0	1		04/08/22 13:59	637-92-3	
<b>Surrogates</b>								
4-Bromofluorobenzene (S)	97	%	70-130	1		04/08/22 13:59	460-00-4	
1,2-Dichloroethane-d4 (S)	98	%	70-130	1		04/08/22 13:59	17060-07-0	
Toluene-d8 (S)	98	%	70-130	1		04/08/22 13:59	2037-26-5	

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### ANALYTICAL RESULTS

Project: Steady Simmons 18856  
Pace Project No.: 92597842

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>Sample: WSW-9</b>								
Lab ID: 92597842005 Collected: 04/04/22 12:18 Received: 04/06/22 11:50 Matrix: Water								
Analytical Method: EPA 504.1 Preparation Method: EPA 504.1								
Pace Analytical Services - Charlotte								
504 GCS EDB and DBCP								
1,2-Dibromo-3-chloropropane	ND	ug/L	0.051	1	04/11/22 11:41	04/11/22 14:24	96-12-8	
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	1	04/11/22 11:41	04/11/22 14:24	106-93-4	
1,2,3-Trichloropropane	ND	ug/L	0.051	1	04/11/22 11:41	04/11/22 14:24	96-18-4	
<b>Surrogates</b>								
1-Chloro-2-bromopropane (S)	89	%	70-130	1	04/11/22 11:41	04/11/22 14:24	301-79-56	
524.2 MSV SC List								
Analytical Method: EPA 524.2								
Pace Analytical Services - Charlotte								
Benzene	ND	mg/L	0.00050	1		04/08/22 18:59	71-43-2	
1,2-Dichloroethane	ND	mg/L	0.00050	1		04/08/22 18:59	107-06-2	
Ethylbenzene	ND	mg/L	0.00050	1		04/08/22 18:59	100-41-4	
Methyl-tert-butyl ether	ND	mg/L	0.00050	1		04/08/22 18:59	1634-04-4	
Naphthalene	ND	mg/L	0.00050	1		04/08/22 18:59	91-20-3	
Toluene	ND	mg/L	0.00050	1		04/08/22 18:59	108-88-3	
m&p-Xylene	ND	mg/L	0.0010	1		04/08/22 18:59	179601-23-1	
o-Xylene	ND	mg/L	0.00050	1		04/08/22 18:59	95-47-6	
<b>Surrogates</b>								
1,2-Dichlorobenzene-d4 (S)	94	%	70-130	1		04/08/22 18:59	2199-69-1	
4-Bromofluorobenzene (S)	87	%	70-130	1		04/08/22 18:59	460-00-4	
8260 MSV Low Level SC								
Analytical Method: EPA 8260D								
Pace Analytical Services - Charlotte								
tert-Amyl Alcohol	ND	ug/L	100	1		04/08/22 14:17	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	1		04/08/22 14:17	994-05-8	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	1		04/08/22 14:17	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	1		04/08/22 14:17	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	1		04/08/22 14:17	762-75-4	
Diisopropyl ether	ND	ug/L	1.0	1		04/08/22 14:17	108-20-3	
Ethanol	ND	ug/L	200	1		04/08/22 14:17	64-17-5	
Ethyl-tert-butyl ether	ND	ug/L	10.0	1		04/08/22 14:17	637-92-3	
<b>Surrogates</b>								
4-Bromofluorobenzene (S)	96	%	70-130	1		04/08/22 14:17	460-00-4	
1,2-Dichloroethane-d4 (S)	96	%	70-130	1		04/08/22 14:17	17060-07-0	
Toluene-d8 (S)	99	%	70-130	1		04/08/22 14:17	2037-26-5	

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### ANALYTICAL RESULTS

Project: Steady Simmons 18856  
Pace Project No.: 92597842

Sample: WSW DUP	Lab ID: 92597842006	Collected: 04/04/22 00:00	Received: 04/06/22 11:50	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>504 GCS EDB and DBCP</b>								
Analytical Method: EPA 504.1 Preparation Method: EPA 504.1								
Pace Analytical Services - Charlotte								
1,2-Dibromo-3-chloropropane	ND	ug/L	0.049	1	04/11/22 11:41	04/11/22 14:35	96-12-8	
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	1	04/11/22 11:41	04/11/22 14:35	106-93-4	
1,2,3-Trichloropropane	ND	ug/L	0.049	1	04/11/22 11:41	04/11/22 14:35	96-18-4	
<b>Surrogates</b>								
1-Chloro-2-bromopropane (S)	85	%	70-130	1	04/11/22 11:41	04/11/22 14:35	301-79-56	
<b>524.2 MSV SC List</b>								
Analytical Method: EPA 524.2								
Pace Analytical Services - Charlotte								
Benzene	ND	mg/L	0.00050	1		04/08/22 19:25	71-43-2	
1,2-Dichloroethane	ND	mg/L	0.00050	1		04/08/22 19:25	107-06-2	
Ethylbenzene	ND	mg/L	0.00050	1		04/08/22 19:25	100-41-4	
Methyl-tert-butyl ether	ND	mg/L	0.00050	1		04/08/22 19:25	1634-04-4	
Naphthalene	ND	mg/L	0.00050	1		04/08/22 19:25	91-20-3	
Toluene	ND	mg/L	0.00050	1		04/08/22 19:25	108-88-3	
m&p-Xylene	ND	mg/L	0.0010	1		04/08/22 19:25	179601-23-1	
o-Xylene	ND	mg/L	0.00050	1		04/08/22 19:25	95-47-6	
<b>Surrogates</b>								
1,2-Dichlorobenzene-d4 (S)	94	%	70-130	1		04/08/22 19:25	2199-69-1	
4-Bromofluorobenzene (S)	87	%	70-130	1		04/08/22 19:25	460-00-4	
<b>8260 MSV Low Level SC</b>								
Analytical Method: EPA 8260D								
Pace Analytical Services - Charlotte								
tert-Amyl Alcohol	ND	ug/L	100	1		04/08/22 14:36	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	1		04/08/22 14:36	994-05-8	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	1		04/08/22 14:36	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	1		04/08/22 14:36	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	1		04/08/22 14:36	762-75-4	
Diisopropyl ether	ND	ug/L	1.0	1		04/08/22 14:36	108-20-3	
Ethanol	ND	ug/L	200	1		04/08/22 14:36	64-17-5	
Ethyl-tert-butyl ether	ND	ug/L	10.0	1		04/08/22 14:36	637-92-3	
<b>Surrogates</b>								
4-Bromofluorobenzene (S)	96	%	70-130	1		04/08/22 14:36	460-00-4	
1,2-Dichloroethane-d4 (S)	99	%	70-130	1		04/08/22 14:36	17060-07-0	
Toluene-d8 (S)	98	%	70-130	1		04/08/22 14:36	2037-26-5	

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### ANALYTICAL RESULTS

Project: Steady Simmons 18856  
Pace Project No.: 92597842

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>Sample: WSW-FB</b>								
Lab ID: 92597842007 Collected: 04/04/22 12:01 Received: 04/06/22 11:50 Matrix: Water								
Analytical Method: EPA 504.1 Preparation Method: EPA 504.1								
Pace Analytical Services - Charlotte								
504 GCS EDB and DBCP								
1,2-Dibromo-3-chloropropane	ND	ug/L	0.050	1	04/11/22 11:41	04/11/22 14:45	96-12-8	
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	1	04/11/22 11:41	04/11/22 14:45	106-93-4	
1,2,3-Trichloropropane	ND	ug/L	0.050	1	04/11/22 11:41	04/11/22 14:45	96-18-4	
<b>Surrogates</b>								
1-Chloro-2-bromopropane (S)	89	%	70-130	1	04/11/22 11:41	04/11/22 14:45	301-79-56	
524.2 MSV SC List								
Analytical Method: EPA 524.2								
Pace Analytical Services - Charlotte								
Benzene	ND	mg/L	0.00050	1		04/08/22 14:13	71-43-2	
1,2-Dichloroethane	ND	mg/L	0.00050	1		04/08/22 14:13	107-06-2	
Ethylbenzene	ND	mg/L	0.00050	1		04/08/22 14:13	100-41-4	
Methyl-tert-butyl ether	ND	mg/L	0.00050	1		04/08/22 14:13	1634-04-4	
Naphthalene	ND	mg/L	0.00050	1		04/08/22 14:13	91-20-3	
Toluene	0.00057	mg/L	0.00050	1		04/08/22 14:13	108-88-3	C0
m&p-Xylene	ND	mg/L	0.0010	1		04/08/22 14:13	179601-23-1	
o-Xylene	ND	mg/L	0.00050	1		04/08/22 14:13	95-47-6	
<b>Surrogates</b>								
1,2-Dichlorobenzene-d4 (S)	94	%	70-130	1		04/08/22 14:13	2199-69-1	
4-Bromofluorobenzene (S)	87	%	70-130	1		04/08/22 14:13	460-00-4	
8260 MSV Low Level SC								
Analytical Method: EPA 8260D								
Pace Analytical Services - Charlotte								
tert-Amyl Alcohol	ND	ug/L	100	1		04/08/22 12:47	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	1		04/08/22 12:47	994-05-8	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	1		04/08/22 12:47	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	1		04/08/22 12:47	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	1		04/08/22 12:47	762-75-4	
Diisopropyl ether	ND	ug/L	1.0	1		04/08/22 12:47	108-20-3	
Ethanol	ND	ug/L	200	1		04/08/22 12:47	64-17-5	
Ethyl-tert-butyl ether	ND	ug/L	10.0	1		04/08/22 12:47	637-92-3	
<b>Surrogates</b>								
4-Bromofluorobenzene (S)	96	%	70-130	1		04/08/22 12:47	460-00-4	
1,2-Dichloroethane-d4 (S)	98	%	70-130	1		04/08/22 12:47	17060-07-0	
Toluene-d8 (S)	98	%	70-130	1		04/08/22 12:47	2037-26-5	

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### ANALYTICAL RESULTS

Project: Steady Simmons 18856  
Pace Project No.: 92597842

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>Sample: WSW TB</b>								
Lab ID: 92597842008 Collected: 04/04/22 08:00 Received: 04/06/22 11:50 Matrix: Water								
Analytical Method: EPA 524.2								
Pace Analytical Services - Charlotte								
<b>524.2 MSV SC List</b>								
Benzene	ND	mg/L	0.00050	1		04/08/22 14:38	71-43-2	
1,2-Dichloroethane	ND	mg/L	0.00050	1		04/08/22 14:38	107-06-2	
Ethylbenzene	ND	mg/L	0.00050	1		04/08/22 14:38	100-41-4	
Methyl-tert-butyl ether	ND	mg/L	0.00050	1		04/08/22 14:38	1634-04-4	
Naphthalene	ND	mg/L	0.00050	1		04/08/22 14:38	91-20-3	
Toluene	ND	mg/L	0.00050	1		04/08/22 14:38	108-88-3	
m&p-Xylene	ND	mg/L	0.0010	1		04/08/22 14:38	179601-23-1	
o-Xylene	ND	mg/L	0.00050	1		04/08/22 14:38	95-47-6	
<b>Surrogates</b>								
1,2-Dichlorobenzene-d4 (S)	93	%	70-130	1		04/08/22 14:38	2199-69-1	
4-Bromofluorobenzene (S)	87	%	70-130	1		04/08/22 14:38	460-00-4	
Analytical Method: EPA 8260D								
Pace Analytical Services - Charlotte								
<b>8260 MSV Low Level SC</b>								
tert-Amyl Alcohol	ND	ug/L	100	1		04/08/22 12:28	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	1		04/08/22 12:28	994-05-8	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	1		04/08/22 12:28	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	1		04/08/22 12:28	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	1		04/08/22 12:28	762-75-4	
Diisopropyl ether	ND	ug/L	1.0	1		04/08/22 12:28	108-20-3	
Ethanol	ND	ug/L	200	1		04/08/22 12:28	64-17-5	
Ethyl-tert-butyl ether	ND	ug/L	10.0	1		04/08/22 12:28	637-92-3	
<b>Surrogates</b>								
4-Bromofluorobenzene (S)	97	%	70-130	1		04/08/22 12:28	460-00-4	
1,2-Dichloroethane-d4 (S)	96	%	70-130	1		04/08/22 12:28	17060-07-0	
Toluene-d8 (S)	98	%	70-130	1		04/08/22 12:28	2037-26-5	

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### QUALITY CONTROL DATA

Project: Steady Simmons 18856  
Pace Project No.: 92597842

QC Batch: 690397 Analysis Method: EPA 524.2  
QC Batch Method: EPA 524.2 Analysis Description: 524.2 MSV  
Laboratory: Pace Analytical Services - Charlotte  
Associated Lab Samples: 92597842001, 92597842002, 92597842003, 92597842004, 92597842005, 92597842006, 92597842007, 92597842008

METHOD BLANK: 3607791 Matrix: Water  
Associated Lab Samples: 92597842001, 92597842002, 92597842003, 92597842004, 92597842005, 92597842006, 92597842007, 92597842008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2-Dichloroethane	mg/L	ND	0.00050	04/08/22 12:54	
Benzene	mg/L	ND	0.00050	04/08/22 12:54	
Ethylbenzene	mg/L	ND	0.00050	04/08/22 12:54	
m&p-Xylene	mg/L	ND	0.0010	04/08/22 12:54	
Methyl-tert-butyl ether	mg/L	ND	0.00050	04/08/22 12:54	
Naphthalene	mg/L	ND	0.00050	04/08/22 12:54	
o-Xylene	mg/L	ND	0.00050	04/08/22 12:54	
Toluene	mg/L	ND	0.00050	04/08/22 12:54	
1,2-Dichlorobenzene-d4 (S)	%	96	70-130	04/08/22 12:54	
4-Bromofluorobenzene (S)	%	89	70-130	04/08/22 12:54	

LABORATORY CONTROL SAMPLE: 3607792

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	mg/L	0.02	0.021	107	70-130	
Benzene	mg/L	0.02	0.020	98	70-130	
Ethylbenzene	mg/L	0.02	0.021	106	70-130	
m&p-Xylene	mg/L	0.04	0.042	106	70-130	
Methyl-tert-butyl ether	mg/L	0.02	0.022	109	70-130	
Naphthalene	mg/L	0.02	0.021	103	70-130	
o-Xylene	mg/L	0.02	0.021	105	70-130	
Toluene	mg/L	0.02	0.020	100	70-130	
1,2-Dichlorobenzene-d4 (S)	%			105	70-130	
4-Bromofluorobenzene (S)	%			99	70-130	

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**QUALITY CONTROL DATA**

Project: Steady Simmons 18856  
Pace Project No.: 92597842

QC Batch: 690222 Analysis Method: EPA 8260D  
QC Batch Method: EPA 8260D Analysis Description: 8260 MSV Low Level SC  
Laboratory: Pace Analytical Services - Charlotte  
Associated Lab Samples: 92597842001, 92597842002, 92597842003, 92597842004, 92597842005, 92597842006, 92597842007, 92597842008

METHOD BLANK: 3607130 Matrix: Water  
Associated Lab Samples: 92597842001, 92597842002, 92597842003, 92597842004, 92597842005, 92597842006, 92597842007, 92597842008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
3,3-Dimethyl-1-Butanol	ug/L	ND	100	04/08/22 05:31	
Diisopropyl ether	ug/L	ND	1.0	04/08/22 05:31	
Ethanol	ug/L	ND	200	04/08/22 05:31	
Ethyl-tert-butyl ether	ug/L	ND	10.0	04/08/22 05:31	
tert-Amyl Alcohol	ug/L	ND	100	04/08/22 05:31	
tert-Amylmethyl ether	ug/L	ND	10.0	04/08/22 05:31	
tert-Butyl Alcohol	ug/L	ND	100	04/08/22 05:31	
tert-Butyl Formate	ug/L	ND	50.0	04/08/22 05:31	
1,2-Dichloroethane-d4 (S)	%	99	70-130	04/08/22 05:31	
4-Bromofluorobenzene (S)	%	98	70-130	04/08/22 05:31	
Toluene-d8 (S)	%	116	70-130	04/08/22 05:31	

LABORATORY CONTROL SAMPLE: 3607131

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
3,3-Dimethyl-1-Butanol	ug/L	1000	1030	103	70-130	
Diisopropyl ether	ug/L	50	51.1	102	70-130	
Ethanol	ug/L	2000	2170	109	70-130	
Ethyl-tert-butyl ether	ug/L	100	105	105	70-130	
tert-Amyl Alcohol	ug/L	1000	1140	114	70-130	
tert-Amylmethyl ether	ug/L	100	107	107	70-130	
tert-Butyl Alcohol	ug/L	500	533	107	70-130	
tert-Butyl Formate	ug/L	400	376	94	70-130	
1,2-Dichloroethane-d4 (S)	%			96	70-130	
4-Bromofluorobenzene (S)	%			84	70-130	
Toluene-d8 (S)	%			101	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3607132 3607133

Parameter	Units	3607132		3607133		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result							
3,3-Dimethyl-1-Butanol	ug/L	ND	400	400	303	327	76	82	39-157	8		
Diisopropyl ether	ug/L	ND	20	20	19.6	22.6	98	113	63-144	14		
Ethanol	ug/L	ND	800	800	945	980	118	123	39-176	4		
Ethyl-tert-butyl ether	ug/L	ND	40	40	37.3	43.3	93	108	66-137	15		
tert-Amyl Alcohol	ug/L	ND	400	400	352	368	88	92	54-153	5		

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**QUALITY CONTROL DATA**

Project: Steady Simmons 18856

Pace Project No.: 92597842

Parameter	92597842001		MS		MSD		MS		MSD		% Rec Limits	RPD	Qual
	Units	Result	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec					
tert-Amylmethyl ether	ug/L	ND	40	40	36.2	42.6	91	107	69-139	16			
tert-Butyl Alcohol	ug/L	ND	200	200	235	265	117	133	43-188	12			
tert-Butyl Formate	ug/L	ND	160	160	51.0	48.8J	32	31	10-170				
1,2-Dichloroethane-d4 (S)	%						100	102	70-130				
4-Bromofluorobenzene (S)	%						101	101	70-130				
Toluene-d8 (S)	%						101	100	70-130				

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**QUALITY CONTROL DATA**

Project: Steady Simmons 18856  
Pace Project No.: 92597842

QC Batch: 690692 Analysis Method: EPA 504.1  
QC Batch Method: EPA 504.1 Analysis Description: GCS 504 EDB DBCP  
Laboratory: Pace Analytical Services - Charlotte  
Associated Lab Samples: 92597842001, 92597842002, 92597842003, 92597842004, 92597842005, 92597842006, 92597842007

METHOD BLANK: 3609178 Matrix: Water  
Associated Lab Samples: 92597842001, 92597842002, 92597842003, 92597842004, 92597842005, 92597842006, 92597842007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,3-Trichloropropane	ug/L	ND	0.050	04/11/22 12:05	
1,2-Dibromo-3-chloropropane	ug/L	ND	0.050	04/11/22 12:05	
1,2-Dibromoethane (EDB)	ug/L	ND	0.020	04/11/22 12:05	
1-Chloro-2-bromopropane (S)	%	85	70-130	04/11/22 12:05	

LABORATORY CONTROL SAMPLE & LCSD: 3609179 3609180

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2,3-Trichloropropane	ug/L	0.25	0.21	0.19	83	77	70-130	7	20	
1,2-Dibromo-3-chloropropane	ug/L	0.25	0.20	0.18	81	72	70-130	11	20	
1,2-Dibromoethane (EDB)	ug/L	0.25	0.21	0.19	84	76	70-130	10	20	
1-Chloro-2-bromopropane (S)	%				90	82	70-130			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3609182 3609183

Parameter	Units	92597706002		MSD		MS		MSD		% Rec Limits	RPD	Qual
		Result	Conc.	Spike Conc.	Conc.	Result	Result	% Rec	% Rec			
1,2,3-Trichloropropane	ug/L	ND	0.25	0.25	0.22	0.19	88	75	65-135	17		
1,2-Dibromo-3-chloropropane	ug/L	ND	0.25	0.25	0.18	0.18	72	71	65-135	1		
1,2-Dibromoethane (EDB)	ug/L	ND	0.25	0.25	0.21	0.20	83	80	65-135	4		
1-Chloro-2-bromopropane (S)	%						88	87	70-130			

SAMPLE DUPLICATE: 3609181

Parameter	Units	92597706001 Result	Dup Result	RPD	Qualifiers
1,2,3-Trichloropropane	ug/L	ND	ND		
1,2-Dibromo-3-chloropropane	ug/L	ND	ND		
1,2-Dibromoethane (EDB)	ug/L	ND	ND		
1-Chloro-2-bromopropane (S)	%	103	91		

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

**REPORT OF LABORATORY ANALYSIS**

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## QUALIFIERS

Project: Steady Simmons 18856  
Pace Project No.: 92597842

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### DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

### ANALYTE QUALIFIERS

C0 Result confirmed by second analysis.

## REPORT OF LABORATORY ANALYSIS

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**QUALITY CONTROL DATA CROSS REFERENCE TABLE**

Project: Steady Simmons 18856  
Pace Project No.: 92597842

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92597842001	WSW-1	EPA 504.1	690692	EPA 504.1	690718
92597842002	WSW-2	EPA 504.1	690692	EPA 504.1	690718
92597842003	WSW-4	EPA 504.1	690692	EPA 504.1	690718
92597842004	WSW-5	EPA 504.1	690692	EPA 504.1	690718
92597842005	WSW-9	EPA 504.1	690692	EPA 504.1	690718
92597842006	WSW DUP	EPA 504.1	690692	EPA 504.1	690718
92597842007	WSW-FB	EPA 504.1	690692	EPA 504.1	690718
92597842001	WSW-1	EPA 524.2	690397		
92597842002	WSW-2	EPA 524.2	690397		
92597842003	WSW-4	EPA 524.2	690397		
92597842004	WSW-5	EPA 524.2	690397		
92597842005	WSW-9	EPA 524.2	690397		
92597842006	WSW DUP	EPA 524.2	690397		
92597842007	WSW-FB	EPA 524.2	690397		
92597842008	WSW TB	EPA 524.2	690397		
92597842001	WSW-1	EPA 8260D	690222		
92597842002	WSW-2	EPA 8260D	690222		
92597842003	WSW-4	EPA 8260D	690222		
92597842004	WSW-5	EPA 8260D	690222		
92597842005	WSW-9	EPA 8260D	690222		
92597842006	WSW DUP	EPA 8260D	690222		
92597842007	WSW-FB	EPA 8260D	690222		
92597842008	WSW TB	EPA 8260D	690222		

**REPORT OF LABORATORY ANALYSIS**

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**CHAIN-OF-CUSTODY Analytical Request Document**

LAB USE ONLY - Affix Workorder/Chain Label Here or List Pace Workorder Number or

**WO# : 92597842**

Company: SCDHEC

Billing Information:

ALL SH



Address: 2600 Bull St

Report To: R Dunn

Container Preservativ

Copy To:

Site Collection Info/Address: 501 Party Blvd, S.C. gov

Analyses

Customer Project Name/Number: Steady Gimmox

State: S.C. Party Blvd, S.C. gov

Lab Profile/Line:

Phone: 19836

Site/Facility ID #: 19836

Custody Seals Present/Intact: Y N NA

Collected By (print): Matthew Funderburk

Purchase Order #: PCA: 65094

Bottles Intact: Y N NA

Collected By (signature): Matthew Funderburk

Turnaround Date Required:

Correct Bottles: Y N NA

Sample Disposal: 1 | Return

Rush: 1 | Same Day 1 | Next Day

Sufficient Volume: Y N NA

1 | Archive: 1 | Hold:

Field Filtered (if applicable): 1 | Yes 1 | No

USA Registered Soils: Y N NA

\* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Wastewater (WW),

Immediately Packed on Ice: 1 | Yes 1 | No

Residual Chlorine Present: Y N NA

Product (P), Soil/Solid (S), Oil (O), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Analysis:

CI Strips: Y N NA

Customer Sample ID

Matrix \*

Sample pH Acceptable: Y N NA

W5W-1

Comp / Grab

pH Strips: Y N NA

W5W-2

Composite Start

Sulfide Present: Y N NA

W5W-3

Date

Lead Acetate Strips: Y N NA

W5W-4

Time

LAB USE ONLY: 92597842

W5W-5

Time

Comments:

W5W-6

Time

Temp Blank Received: Y N NA

W5W-7

Time

Therm ID#: 4306

W5W-8

Time

Cooler 1 Temp Upon Receipt: 1.7 OC

W5W-9

Time

Cooler 1 Therm Corr. Factor: 0.9 OC

W5W-DP

Time

Cooler 1 Corrected Temp: 1.2 OC

Customer Remarks / Special Conditions / Possible Hazards:

Type of Ice Used: Wet Blue Dry None

Lab Sample Temperature Info:

Requisitioned by/Company (Signature)

Received by/Company (Signature)

Temp Blank Received: Y N NA

Requisitioned by/Company (Signature)

Received by/Company (Signature)

Therm ID#: 4306

Requisitioned by/Company (Signature)

Received by/Company (Signature)

Cooler 1 Temp Upon Receipt: 1.7 OC

Requisitioned by/Company (Signature)

Received by/Company (Signature)

Cooler 1 Therm Corr. Factor: 0.9 OC

Requisitioned by/Company (Signature)

Received by/Company (Signature)

Cooler 1 Corrected Temp: 1.2 OC

Table #:

Account:

Comments:

Date/Time:

Date/Time:

Table #: 4/6/22 1150

Date/Time:

Date/Time:

Account: 2517646

Date/Time:

Date/Time:

Client: MTFL LAB USE ONLY

Date/Time:

Date/Time:

Courier: Pace Courier

Date/Time:

Date/Time:

Prelogin: N NA

Date/Time:

Date/Time:

PM: N NA

Date/Time:

Date/Time:

PB: N NA

Date/Time:

Date/Time:

Page: of:



\*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

\*\*Bottom half of box is to list number of bottles

Project # **WO# : 92597842**  
 PM: AMB Due Date: 04/13/22  
 CLIENT: 92-SCDHEC

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU- Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	AG3A(DG3A)-250 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9F-40 mL VOA H3PO4 (N/A)	VOAK (3 vials per kit)-5035 kit (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A - lab)	SP2T-250 mL Sterile Plastic (N/A - lab)	BP3A-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved vials (N/A)	V5GU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)	
1	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	6	3	/	/	/	/	/	/	/	/	/	/	/
2	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	6	3	/	/	/	/	/	/	/	/	/	/	/
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8	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
9	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	6	3	/	/	/	/	/	/	/	/	/	/	/
10	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	6	3	/	/	/	/	/	/	/	/	/	/	/
11	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	6	3	/	/	/	/	/	/	/	/	/	/	/
12	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	6	3	/	/	/	/	/	/	/	/	/	/	/

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.



April 19, 2022

Arthur Brown  
SCDHEC  
2600 Bull Street  
Columbia, SC 29201

RE: Project: Steady Simmons 18856  
Pace Project No.: 92597842

Dear Arthur Brown:

Enclosed are the analytical results for sample(s) received by the laboratory on April 06, 2022. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Charlotte

A revised report is being issued on 4/19/22 to update reporting contacts.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Angela Baioni  
angela.baioni@pacelabs.com  
(704)875-9092  
Project Manager

Enclosures

cc: Jeff Coleman, Midlands Environmental Consultants, Inc.  
Robert Dunn, SCDHEC  
Kyle Pudney, Midlands Environmental Consultants, Inc.



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: Steady Simmons 18856

Pace Project No.: 92597842

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**Pace Analytical Services Charlotte**

South Carolina Laboratory ID: 99006

9800 Kinsey Ave. Ste 100, Huntersville, NC 28078

North Carolina Drinking Water Certification #: 37706

North Carolina Field Services Certification #: 5342

North Carolina Wastewater Certification #: 12

South Carolina Laboratory ID: 99006

South Carolina Certification #: 99006001

South Carolina Drinking Water Cert. #: 99006003

Florida/NELAP Certification #: E87627

Kentucky UST Certification #: 84

Louisiana DoH Drinking Water #: LA029

Virginia/VELAP Certification #: 460221

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## REPORT OF LABORATORY ANALYSIS

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**SAMPLE ANALYTE COUNT**

Project: Steady Simmons 18856  
Pace Project No.: 92597842

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92597842001	WSW-1	EPA 504.1	AP2	4	PASI-C
		EPA 524.2	LMB	10	PASI-C
		EPA 8260D	CL	11	PASI-C
92597842002	WSW-2	EPA 504.1	AP2	4	PASI-C
		EPA 524.2	LMB	10	PASI-C
		EPA 8260D	CL	11	PASI-C
92597842003	WSW-4	EPA 504.1	AP2	4	PASI-C
		EPA 524.2	LMB	10	PASI-C
		EPA 8260D	CL	11	PASI-C
92597842004	WSW-5	EPA 504.1	AP2	4	PASI-C
		EPA 524.2	LMB	10	PASI-C
		EPA 8260D	CL	11	PASI-C
92597842005	WSW-9	EPA 504.1	AP2	4	PASI-C
		EPA 524.2	LMB	10	PASI-C
		EPA 8260D	CL	11	PASI-C
92597842006	WSW DUP	EPA 504.1	AP2	4	PASI-C
		EPA 524.2	LMB	10	PASI-C
		EPA 8260D	CL	11	PASI-C
92597842007	WSW-FB	EPA 504.1	AP2	4	PASI-C
		EPA 524.2	LMB	10	PASI-C
		EPA 8260D	CL	11	PASI-C
92597842008	WSW TB	EPA 524.2	LMB	10	PASI-C
		EPA 8260D	CL	11	PASI-C

PASI-C = Pace Analytical Services - Charlotte

**REPORT OF LABORATORY ANALYSIS**

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### ANALYTICAL RESULTS

Project: Steady Simmons 18856  
Pace Project No.: 92597842

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>Sample: WSW-1</b>								
Lab ID: 92597842001 Collected: 04/04/22 12:21 Received: 04/06/22 11:50 Matrix: Water								
Analytical Method: EPA 504.1 Preparation Method: EPA 504.1								
Pace Analytical Services - Charlotte								
504 GCS EDB and DBCP								
1,2-Dibromo-3-chloropropane	ND	ug/L	0.050	1	04/11/22 11:41	04/11/22 13:41	96-12-8	
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	1	04/11/22 11:41	04/11/22 13:41	106-93-4	
1,2,3-Trichloropropane	ND	ug/L	0.050	1	04/11/22 11:41	04/11/22 13:41	96-18-4	
<b>Surrogates</b>								
1-Chloro-2-bromopropane (S)	81	%	70-130	1	04/11/22 11:41	04/11/22 13:41	301-79-56	
<b>524.2 MSV SC List</b>								
Analytical Method: EPA 524.2								
Pace Analytical Services - Charlotte								
Benzene	ND	mg/L	0.00050	1		04/08/22 17:15	71-43-2	
1,2-Dichloroethane	ND	mg/L	0.00050	1		04/08/22 17:15	107-06-2	
Ethylbenzene	ND	mg/L	0.00050	1		04/08/22 17:15	100-41-4	
Methyl-tert-butyl ether	ND	mg/L	0.00050	1		04/08/22 17:15	1634-04-4	
Naphthalene	ND	mg/L	0.00050	1		04/08/22 17:15	91-20-3	
Toluene	ND	mg/L	0.00050	1		04/08/22 17:15	108-88-3	
m&p-Xylene	ND	mg/L	0.0010	1		04/08/22 17:15	179601-23-1	
o-Xylene	ND	mg/L	0.00050	1		04/08/22 17:15	95-47-6	
<b>Surrogates</b>								
1,2-Dichlorobenzene-d4 (S)	88	%	70-130	1		04/08/22 17:15	2199-69-1	
4-Bromofluorobenzene (S)	88	%	70-130	1		04/08/22 17:15	460-00-4	
<b>8260 MSV Low Level SC</b>								
Analytical Method: EPA 8260D								
Pace Analytical Services - Charlotte								
tert-Amyl Alcohol	ND	ug/L	100	1		04/08/22 13:05	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	1		04/08/22 13:05	994-05-8	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	1		04/08/22 13:05	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	1		04/08/22 13:05	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	1		04/08/22 13:05	762-75-4	
Diisopropyl ether	ND	ug/L	1.0	1		04/08/22 13:05	108-20-3	
Ethanol	ND	ug/L	200	1		04/08/22 13:05	64-17-5	
Ethyl-tert-butyl ether	ND	ug/L	10.0	1		04/08/22 13:05	637-92-3	
<b>Surrogates</b>								
4-Bromofluorobenzene (S)	96	%	70-130	1		04/08/22 13:05	460-00-4	
1,2-Dichloroethane-d4 (S)	99	%	70-130	1		04/08/22 13:05	17060-07-0	
Toluene-d8 (S)	98	%	70-130	1		04/08/22 13:05	2037-26-5	

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: Steady Simmons 18856  
Pace Project No.: 92597842

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>Sample: WSW-2</b>								
Lab ID: 92597842002 Collected: 04/04/22 12:28 Received: 04/06/22 11:50 Matrix: Water								
Analytical Method: EPA 504.1 Preparation Method: EPA 504.1								
Pace Analytical Services - Charlotte								
<b>504 GCS EDB and DBCP</b>								
1,2-Dibromo-3-chloropropane	ND	ug/L	0.051	1	04/11/22 11:41	04/11/22 13:52	96-12-8	
1,2-Dibromoethane (EDB)	ND	ug/L	0.021	1	04/11/22 11:41	04/11/22 13:52	106-93-4	
1,2,3-Trichloropropane	ND	ug/L	0.051	1	04/11/22 11:41	04/11/22 13:52	96-18-4	
<b>Surrogates</b>								
1-Chloro-2-bromopropane (S)	78	%	70-130	1	04/11/22 11:41	04/11/22 13:52	301-79-56	
<b>524.2 MSV SC List</b>								
Analytical Method: EPA 524.2								
Pace Analytical Services - Charlotte								
Benzene	ND	mg/L	0.00050	1		04/08/22 17:41	71-43-2	
1,2-Dichloroethane	ND	mg/L	0.00050	1		04/08/22 17:41	107-06-2	
Ethylbenzene	ND	mg/L	0.00050	1		04/08/22 17:41	100-41-4	
Methyl-tert-butyl ether	ND	mg/L	0.00050	1		04/08/22 17:41	1634-04-4	
Naphthalene	ND	mg/L	0.00050	1		04/08/22 17:41	91-20-3	
Toluene	ND	mg/L	0.00050	1		04/08/22 17:41	108-88-3	
m&p-Xylene	ND	mg/L	0.0010	1		04/08/22 17:41	179601-23-1	
o-Xylene	ND	mg/L	0.00050	1		04/08/22 17:41	95-47-6	
<b>Surrogates</b>								
1,2-Dichlorobenzene-d4 (S)	94	%	70-130	1		04/08/22 17:41	2199-69-1	
4-Bromofluorobenzene (S)	87	%	70-130	1		04/08/22 17:41	460-00-4	
<b>8260 MSV Low Level SC</b>								
Analytical Method: EPA 8260D								
Pace Analytical Services - Charlotte								
tert-Amyl Alcohol	ND	ug/L	100	1		04/08/22 13:23	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	1		04/08/22 13:23	994-05-8	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	1		04/08/22 13:23	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	1		04/08/22 13:23	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	1		04/08/22 13:23	762-75-4	
Diisopropyl ether	ND	ug/L	1.0	1		04/08/22 13:23	108-20-3	
Ethanol	ND	ug/L	200	1		04/08/22 13:23	64-17-5	
Ethyl-tert-butyl ether	ND	ug/L	10.0	1		04/08/22 13:23	637-92-3	
<b>Surrogates</b>								
4-Bromofluorobenzene (S)	97	%	70-130	1		04/08/22 13:23	460-00-4	
1,2-Dichloroethane-d4 (S)	98	%	70-130	1		04/08/22 13:23	17060-07-0	
Toluene-d8 (S)	99	%	70-130	1		04/08/22 13:23	2037-26-5	

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### ANALYTICAL RESULTS

Project: Steady Simmons 18856  
Pace Project No.: 92597842

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>Sample: WSW-4</b>								
Lab ID: 92597842003 Collected: 04/04/22 12:35 Received: 04/06/22 11:50 Matrix: Water								
Analytical Method: EPA 504.1 Preparation Method: EPA 504.1								
Pace Analytical Services - Charlotte								
<b>504 GCS EDB and DBCP</b>								
1,2-Dibromo-3-chloropropane	ND	ug/L	0.052	1	04/11/22 11:41	04/11/22 14:03	96-12-8	
1,2-Dibromoethane (EDB)	ND	ug/L	0.021	1	04/11/22 11:41	04/11/22 14:03	106-93-4	
1,2,3-Trichloropropane	ND	ug/L	0.052	1	04/11/22 11:41	04/11/22 14:03	96-18-4	
<b>Surrogates</b>								
1-Chloro-2-bromopropane (S)	87	%	70-130	1	04/11/22 11:41	04/11/22 14:03	301-79-56	
<b>524.2 MSV SC List</b>								
Analytical Method: EPA 524.2								
Pace Analytical Services - Charlotte								
Benzene	ND	mg/L	0.00050	1		04/08/22 18:07	71-43-2	
1,2-Dichloroethane	ND	mg/L	0.00050	1		04/08/22 18:07	107-06-2	
Ethylbenzene	ND	mg/L	0.00050	1		04/08/22 18:07	100-41-4	
Methyl-tert-butyl ether	ND	mg/L	0.00050	1		04/08/22 18:07	1634-04-4	
Naphthalene	ND	mg/L	0.00050	1		04/08/22 18:07	91-20-3	
Toluene	ND	mg/L	0.00050	1		04/08/22 18:07	108-88-3	
m&p-Xylene	ND	mg/L	0.0010	1		04/08/22 18:07	179601-23-1	
o-Xylene	ND	mg/L	0.00050	1		04/08/22 18:07	95-47-6	
<b>Surrogates</b>								
1,2-Dichlorobenzene-d4 (S)	94	%	70-130	1		04/08/22 18:07	2199-69-1	
4-Bromofluorobenzene (S)	86	%	70-130	1		04/08/22 18:07	460-00-4	
<b>8260 MSV Low Level SC</b>								
Analytical Method: EPA 8260D								
Pace Analytical Services - Charlotte								
tert-Amyl Alcohol	ND	ug/L	100	1		04/08/22 13:41	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	1		04/08/22 13:41	994-05-8	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	1		04/08/22 13:41	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	1		04/08/22 13:41	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	1		04/08/22 13:41	762-75-4	
Diisopropyl ether	ND	ug/L	1.0	1		04/08/22 13:41	108-20-3	
Ethanol	ND	ug/L	200	1		04/08/22 13:41	64-17-5	
Ethyl-tert-butyl ether	ND	ug/L	10.0	1		04/08/22 13:41	637-92-3	
<b>Surrogates</b>								
4-Bromofluorobenzene (S)	98	%	70-130	1		04/08/22 13:41	460-00-4	
1,2-Dichloroethane-d4 (S)	97	%	70-130	1		04/08/22 13:41	17060-07-0	
Toluene-d8 (S)	98	%	70-130	1		04/08/22 13:41	2037-26-5	

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### ANALYTICAL RESULTS

Project: Steady Simmons 18856  
Pace Project No.: 92597842

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>Sample: WSW-5</b>								
Lab ID: 92597842004 Collected: 04/04/22 12:13 Received: 04/06/22 11:50 Matrix: Water								
Analytical Method: EPA 504.1 Preparation Method: EPA 504.1								
Pace Analytical Services - Charlotte								
504 GCS EDB and DBCP								
1,2-Dibromo-3-chloropropane	ND	ug/L	0.051	1	04/11/22 11:41	04/11/22 14:13	96-12-8	
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	1	04/11/22 11:41	04/11/22 14:13	106-93-4	
1,2,3-Trichloropropane	ND	ug/L	0.051	1	04/11/22 11:41	04/11/22 14:13	96-18-4	
<b>Surrogates</b>								
1-Chloro-2-bromopropane (S)	86	%	70-130	1	04/11/22 11:41	04/11/22 14:13	301-79-56	
524.2 MSV SC List								
Analytical Method: EPA 524.2								
Pace Analytical Services - Charlotte								
Benzene	ND	mg/L	0.00050	1		04/08/22 18:33	71-43-2	
1,2-Dichloroethane	ND	mg/L	0.00050	1		04/08/22 18:33	107-06-2	
Ethylbenzene	ND	mg/L	0.00050	1		04/08/22 18:33	100-41-4	
Methyl-tert-butyl ether	ND	mg/L	0.00050	1		04/08/22 18:33	1634-04-4	
Naphthalene	ND	mg/L	0.00050	1		04/08/22 18:33	91-20-3	
Toluene	ND	mg/L	0.00050	1		04/08/22 18:33	108-88-3	
m&p-Xylene	ND	mg/L	0.0010	1		04/08/22 18:33	179601-23-1	
o-Xylene	ND	mg/L	0.00050	1		04/08/22 18:33	95-47-6	
<b>Surrogates</b>								
1,2-Dichlorobenzene-d4 (S)	93	%	70-130	1		04/08/22 18:33	2199-69-1	
4-Bromofluorobenzene (S)	86	%	70-130	1		04/08/22 18:33	460-00-4	
8260 MSV Low Level SC								
Analytical Method: EPA 8260D								
Pace Analytical Services - Charlotte								
tert-Amyl Alcohol	ND	ug/L	100	1		04/08/22 13:59	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	1		04/08/22 13:59	994-05-8	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	1		04/08/22 13:59	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	1		04/08/22 13:59	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	1		04/08/22 13:59	762-75-4	
Diisopropyl ether	ND	ug/L	1.0	1		04/08/22 13:59	108-20-3	
Ethanol	ND	ug/L	200	1		04/08/22 13:59	64-17-5	
Ethyl-tert-butyl ether	ND	ug/L	10.0	1		04/08/22 13:59	637-92-3	
<b>Surrogates</b>								
4-Bromofluorobenzene (S)	97	%	70-130	1		04/08/22 13:59	460-00-4	
1,2-Dichloroethane-d4 (S)	98	%	70-130	1		04/08/22 13:59	17060-07-0	
Toluene-d8 (S)	98	%	70-130	1		04/08/22 13:59	2037-26-5	

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### ANALYTICAL RESULTS

Project: Steady Simmons 18856  
Pace Project No.: 92597842

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>Sample: WSW-9</b>								
Lab ID: 92597842005 Collected: 04/04/22 12:18 Received: 04/06/22 11:50 Matrix: Water								
Analytical Method: EPA 504.1 Preparation Method: EPA 504.1								
Pace Analytical Services - Charlotte								
504 GCS EDB and DBCP								
1,2-Dibromo-3-chloropropane	ND	ug/L	0.051	1	04/11/22 11:41	04/11/22 14:24	96-12-8	
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	1	04/11/22 11:41	04/11/22 14:24	106-93-4	
1,2,3-Trichloropropane	ND	ug/L	0.051	1	04/11/22 11:41	04/11/22 14:24	96-18-4	
<b>Surrogates</b>								
1-Chloro-2-bromopropane (S)	89	%	70-130	1	04/11/22 11:41	04/11/22 14:24	301-79-56	
524.2 MSV SC List								
Analytical Method: EPA 524.2								
Pace Analytical Services - Charlotte								
Benzene	ND	mg/L	0.00050	1		04/08/22 18:59	71-43-2	
1,2-Dichloroethane	ND	mg/L	0.00050	1		04/08/22 18:59	107-06-2	
Ethylbenzene	ND	mg/L	0.00050	1		04/08/22 18:59	100-41-4	
Methyl-tert-butyl ether	ND	mg/L	0.00050	1		04/08/22 18:59	1634-04-4	
Naphthalene	ND	mg/L	0.00050	1		04/08/22 18:59	91-20-3	
Toluene	ND	mg/L	0.00050	1		04/08/22 18:59	108-88-3	
m&p-Xylene	ND	mg/L	0.0010	1		04/08/22 18:59	179601-23-1	
o-Xylene	ND	mg/L	0.00050	1		04/08/22 18:59	95-47-6	
<b>Surrogates</b>								
1,2-Dichlorobenzene-d4 (S)	94	%	70-130	1		04/08/22 18:59	2199-69-1	
4-Bromofluorobenzene (S)	87	%	70-130	1		04/08/22 18:59	460-00-4	
8260 MSV Low Level SC								
Analytical Method: EPA 8260D								
Pace Analytical Services - Charlotte								
tert-Amyl Alcohol	ND	ug/L	100	1		04/08/22 14:17	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	1		04/08/22 14:17	994-05-8	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	1		04/08/22 14:17	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	1		04/08/22 14:17	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	1		04/08/22 14:17	762-75-4	
Diisopropyl ether	ND	ug/L	1.0	1		04/08/22 14:17	108-20-3	
Ethanol	ND	ug/L	200	1		04/08/22 14:17	64-17-5	
Ethyl-tert-butyl ether	ND	ug/L	10.0	1		04/08/22 14:17	637-92-3	
<b>Surrogates</b>								
4-Bromofluorobenzene (S)	96	%	70-130	1		04/08/22 14:17	460-00-4	
1,2-Dichloroethane-d4 (S)	96	%	70-130	1		04/08/22 14:17	17060-07-0	
Toluene-d8 (S)	99	%	70-130	1		04/08/22 14:17	2037-26-5	

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### ANALYTICAL RESULTS

Project: Steady Simmons 18856  
Pace Project No.: 92597842

Sample: WSW DUP	Lab ID: 92597842006	Collected: 04/04/22 00:00	Received: 04/06/22 11:50	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>504 GCS EDB and DBCP</b>								
Analytical Method: EPA 504.1 Preparation Method: EPA 504.1								
Pace Analytical Services - Charlotte								
1,2-Dibromo-3-chloropropane	ND	ug/L	0.049	1	04/11/22 11:41	04/11/22 14:35	96-12-8	
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	1	04/11/22 11:41	04/11/22 14:35	106-93-4	
1,2,3-Trichloropropane	ND	ug/L	0.049	1	04/11/22 11:41	04/11/22 14:35	96-18-4	
<b>Surrogates</b>								
1-Chloro-2-bromopropane (S)	85	%	70-130	1	04/11/22 11:41	04/11/22 14:35	301-79-56	
<b>524.2 MSV SC List</b>								
Analytical Method: EPA 524.2								
Pace Analytical Services - Charlotte								
Benzene	ND	mg/L	0.00050	1		04/08/22 19:25	71-43-2	
1,2-Dichloroethane	ND	mg/L	0.00050	1		04/08/22 19:25	107-06-2	
Ethylbenzene	ND	mg/L	0.00050	1		04/08/22 19:25	100-41-4	
Methyl-tert-butyl ether	ND	mg/L	0.00050	1		04/08/22 19:25	1634-04-4	
Naphthalene	ND	mg/L	0.00050	1		04/08/22 19:25	91-20-3	
Toluene	ND	mg/L	0.00050	1		04/08/22 19:25	108-88-3	
m&p-Xylene	ND	mg/L	0.0010	1		04/08/22 19:25	179601-23-1	
o-Xylene	ND	mg/L	0.00050	1		04/08/22 19:25	95-47-6	
<b>Surrogates</b>								
1,2-Dichlorobenzene-d4 (S)	94	%	70-130	1		04/08/22 19:25	2199-69-1	
4-Bromofluorobenzene (S)	87	%	70-130	1		04/08/22 19:25	460-00-4	
<b>8260 MSV Low Level SC</b>								
Analytical Method: EPA 8260D								
Pace Analytical Services - Charlotte								
tert-Amyl Alcohol	ND	ug/L	100	1		04/08/22 14:36	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	1		04/08/22 14:36	994-05-8	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	1		04/08/22 14:36	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	1		04/08/22 14:36	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	1		04/08/22 14:36	762-75-4	
Diisopropyl ether	ND	ug/L	1.0	1		04/08/22 14:36	108-20-3	
Ethanol	ND	ug/L	200	1		04/08/22 14:36	64-17-5	
Ethyl-tert-butyl ether	ND	ug/L	10.0	1		04/08/22 14:36	637-92-3	
<b>Surrogates</b>								
4-Bromofluorobenzene (S)	96	%	70-130	1		04/08/22 14:36	460-00-4	
1,2-Dichloroethane-d4 (S)	99	%	70-130	1		04/08/22 14:36	17060-07-0	
Toluene-d8 (S)	98	%	70-130	1		04/08/22 14:36	2037-26-5	

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### ANALYTICAL RESULTS

Project: Steady Simmons 18856  
Pace Project No.: 92597842

Sample: WSW-FB	Lab ID: 92597842007	Collected: 04/04/22 12:01	Received: 04/06/22 11:50	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>504 GCS EDB and DBCP</b>								
Analytical Method: EPA 504.1 Preparation Method: EPA 504.1								
Pace Analytical Services - Charlotte								
1,2-Dibromo-3-chloropropane	ND	ug/L	0.050	1	04/11/22 11:41	04/11/22 14:45	96-12-8	
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	1	04/11/22 11:41	04/11/22 14:45	106-93-4	
1,2,3-Trichloropropane	ND	ug/L	0.050	1	04/11/22 11:41	04/11/22 14:45	96-18-4	
<b>Surrogates</b>								
1-Chloro-2-bromopropane (S)	89	%	70-130	1	04/11/22 11:41	04/11/22 14:45	301-79-56	
<b>524.2 MSV SC List</b>								
Analytical Method: EPA 524.2								
Pace Analytical Services - Charlotte								
Benzene	ND	mg/L	0.00050	1		04/08/22 14:13	71-43-2	
1,2-Dichloroethane	ND	mg/L	0.00050	1		04/08/22 14:13	107-06-2	
Ethylbenzene	ND	mg/L	0.00050	1		04/08/22 14:13	100-41-4	
Methyl-tert-butyl ether	ND	mg/L	0.00050	1		04/08/22 14:13	1634-04-4	
Naphthalene	ND	mg/L	0.00050	1		04/08/22 14:13	91-20-3	
Toluene	0.00057	mg/L	0.00050	1		04/08/22 14:13	108-88-3	C0
m&p-Xylene	ND	mg/L	0.0010	1		04/08/22 14:13	179601-23-1	
o-Xylene	ND	mg/L	0.00050	1		04/08/22 14:13	95-47-6	
<b>Surrogates</b>								
1,2-Dichlorobenzene-d4 (S)	94	%	70-130	1		04/08/22 14:13	2199-69-1	
4-Bromofluorobenzene (S)	87	%	70-130	1		04/08/22 14:13	460-00-4	
<b>8260 MSV Low Level SC</b>								
Analytical Method: EPA 8260D								
Pace Analytical Services - Charlotte								
tert-Amyl Alcohol	ND	ug/L	100	1		04/08/22 12:47	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	1		04/08/22 12:47	994-05-8	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	1		04/08/22 12:47	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	1		04/08/22 12:47	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	1		04/08/22 12:47	762-75-4	
Diisopropyl ether	ND	ug/L	1.0	1		04/08/22 12:47	108-20-3	
Ethanol	ND	ug/L	200	1		04/08/22 12:47	64-17-5	
Ethyl-tert-butyl ether	ND	ug/L	10.0	1		04/08/22 12:47	637-92-3	
<b>Surrogates</b>								
4-Bromofluorobenzene (S)	96	%	70-130	1		04/08/22 12:47	460-00-4	
1,2-Dichloroethane-d4 (S)	98	%	70-130	1		04/08/22 12:47	17060-07-0	
Toluene-d8 (S)	98	%	70-130	1		04/08/22 12:47	2037-26-5	

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### ANALYTICAL RESULTS

Project: Steady Simmons 18856  
Pace Project No.: 92597842

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>Sample: WSW TB</b>								
Lab ID: 92597842008 Collected: 04/04/22 08:00 Received: 04/06/22 11:50 Matrix: Water								
<b>524.2 MSV SC List</b>								
Analytical Method: EPA 524.2								
Pace Analytical Services - Charlotte								
Benzene	ND	mg/L	0.00050	1		04/08/22 14:38	71-43-2	
1,2-Dichloroethane	ND	mg/L	0.00050	1		04/08/22 14:38	107-06-2	
Ethylbenzene	ND	mg/L	0.00050	1		04/08/22 14:38	100-41-4	
Methyl-tert-butyl ether	ND	mg/L	0.00050	1		04/08/22 14:38	1634-04-4	
Naphthalene	ND	mg/L	0.00050	1		04/08/22 14:38	91-20-3	
Toluene	ND	mg/L	0.00050	1		04/08/22 14:38	108-88-3	
m&p-Xylene	ND	mg/L	0.0010	1		04/08/22 14:38	179601-23-1	
o-Xylene	ND	mg/L	0.00050	1		04/08/22 14:38	95-47-6	
<b>Surrogates</b>								
1,2-Dichlorobenzene-d4 (S)	93	%	70-130	1		04/08/22 14:38	2199-69-1	
4-Bromofluorobenzene (S)	87	%	70-130	1		04/08/22 14:38	460-00-4	
<b>8260 MSV Low Level SC</b>								
Analytical Method: EPA 8260D								
Pace Analytical Services - Charlotte								
tert-Amyl Alcohol	ND	ug/L	100	1		04/08/22 12:28	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	1		04/08/22 12:28	994-05-8	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	1		04/08/22 12:28	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	1		04/08/22 12:28	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	1		04/08/22 12:28	762-75-4	
Diisopropyl ether	ND	ug/L	1.0	1		04/08/22 12:28	108-20-3	
Ethanol	ND	ug/L	200	1		04/08/22 12:28	64-17-5	
Ethyl-tert-butyl ether	ND	ug/L	10.0	1		04/08/22 12:28	637-92-3	
<b>Surrogates</b>								
4-Bromofluorobenzene (S)	97	%	70-130	1		04/08/22 12:28	460-00-4	
1,2-Dichloroethane-d4 (S)	96	%	70-130	1		04/08/22 12:28	17060-07-0	
Toluene-d8 (S)	98	%	70-130	1		04/08/22 12:28	2037-26-5	

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**QUALITY CONTROL DATA**

Project: Steady Simmons 18856  
Pace Project No.: 92597842

QC Batch: 690222 Analysis Method: EPA 8260D  
QC Batch Method: EPA 8260D Analysis Description: 8260 MSV Low Level SC  
Laboratory: Pace Analytical Services - Charlotte  
Associated Lab Samples: 92597842001, 92597842002, 92597842003, 92597842004, 92597842005, 92597842006, 92597842007, 92597842008

METHOD BLANK: 3607130 Matrix: Water  
Associated Lab Samples: 92597842001, 92597842002, 92597842003, 92597842004, 92597842005, 92597842006, 92597842007, 92597842008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
3,3-Dimethyl-1-Butanol	ug/L	ND	100	04/08/22 05:31	
Diisopropyl ether	ug/L	ND	1.0	04/08/22 05:31	
Ethanol	ug/L	ND	200	04/08/22 05:31	
Ethyl-tert-butyl ether	ug/L	ND	10.0	04/08/22 05:31	
tert-Amyl Alcohol	ug/L	ND	100	04/08/22 05:31	
tert-Amylmethyl ether	ug/L	ND	10.0	04/08/22 05:31	
tert-Butyl Alcohol	ug/L	ND	100	04/08/22 05:31	
tert-Butyl Formate	ug/L	ND	50.0	04/08/22 05:31	
1,2-Dichloroethane-d4 (S)	%	99	70-130	04/08/22 05:31	
4-Bromofluorobenzene (S)	%	98	70-130	04/08/22 05:31	
Toluene-d8 (S)	%	116	70-130	04/08/22 05:31	

LABORATORY CONTROL SAMPLE: 3607131

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
3,3-Dimethyl-1-Butanol	ug/L	1000	1030	103	70-130	
Diisopropyl ether	ug/L	50	51.1	102	70-130	
Ethanol	ug/L	2000	2170	109	70-130	
Ethyl-tert-butyl ether	ug/L	100	105	105	70-130	
tert-Amyl Alcohol	ug/L	1000	1140	114	70-130	
tert-Amylmethyl ether	ug/L	100	107	107	70-130	
tert-Butyl Alcohol	ug/L	500	533	107	70-130	
tert-Butyl Formate	ug/L	400	376	94	70-130	
1,2-Dichloroethane-d4 (S)	%			96	70-130	
4-Bromofluorobenzene (S)	%			84	70-130	
Toluene-d8 (S)	%			101	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3607132 3607133

Parameter	Units	3607132		3607133		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result							
3,3-Dimethyl-1-Butanol	ug/L	ND	400	400	303	327	76	82	39-157	8		
Diisopropyl ether	ug/L	ND	20	20	19.6	22.6	98	113	63-144	14		
Ethanol	ug/L	ND	800	800	945	980	118	123	39-176	4		
Ethyl-tert-butyl ether	ug/L	ND	40	40	37.3	43.3	93	108	66-137	15		
tert-Amyl Alcohol	ug/L	ND	400	400	352	368	88	92	54-153	5		

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

**REPORT OF LABORATORY ANALYSIS**

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**QUALITY CONTROL DATA**

Project: Steady Simmons 18856

Pace Project No.: 92597842

Parameter	92597842001		MS		MSD		MS		MSD		% Rec Limits	RPD	Qual
	Units	Result	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec					
tert-Amylmethyl ether	ug/L	ND	40	40	36.2	42.6	91	107	69-139	16			
tert-Butyl Alcohol	ug/L	ND	200	200	235	265	117	133	43-188	12			
tert-Butyl Formate	ug/L	ND	160	160	51.0	48.8J	32	31	10-170				
1,2-Dichloroethane-d4 (S)	%						100	102	70-130				
4-Bromofluorobenzene (S)	%						101	101	70-130				
Toluene-d8 (S)	%						101	100	70-130				

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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**QUALITY CONTROL DATA**

Project: Steady Simmons 18856  
Pace Project No.: 92597842

QC Batch: 690692 Analysis Method: EPA 504.1  
QC Batch Method: EPA 504.1 Analysis Description: GCS 504 EDB DBCP  
Laboratory: Pace Analytical Services - Charlotte  
Associated Lab Samples: 92597842001, 92597842002, 92597842003, 92597842004, 92597842005, 92597842006, 92597842007

METHOD BLANK: 3609178 Matrix: Water  
Associated Lab Samples: 92597842001, 92597842002, 92597842003, 92597842004, 92597842005, 92597842006, 92597842007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,3-Trichloropropane	ug/L	ND	0.050	04/11/22 12:05	
1,2-Dibromo-3-chloropropane	ug/L	ND	0.050	04/11/22 12:05	
1,2-Dibromoethane (EDB)	ug/L	ND	0.020	04/11/22 12:05	
1-Chloro-2-bromopropane (S)	%	85	70-130	04/11/22 12:05	

LABORATORY CONTROL SAMPLE & LCSD: 3609179 3609180

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2,3-Trichloropropane	ug/L	0.25	0.21	0.19	83	77	70-130	7	20	
1,2-Dibromo-3-chloropropane	ug/L	0.25	0.20	0.18	81	72	70-130	11	20	
1,2-Dibromoethane (EDB)	ug/L	0.25	0.21	0.19	84	76	70-130	10	20	
1-Chloro-2-bromopropane (S)	%				90	82	70-130			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3609182 3609183

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
		92597706002 Result	Spike Conc.	Spike Conc.	MS Result					
1,2,3-Trichloropropane	ug/L	ND	0.25	0.25	0.22	0.19	88	75	65-135	17
1,2-Dibromo-3-chloropropane	ug/L	ND	0.25	0.25	0.18	0.18	72	71	65-135	1
1,2-Dibromoethane (EDB)	ug/L	ND	0.25	0.25	0.21	0.20	83	80	65-135	4
1-Chloro-2-bromopropane (S)	%						88	87	70-130	

SAMPLE DUPLICATE: 3609181

Parameter	Units	92597706001 Result	Dup Result	RPD	Qualifiers
1,2,3-Trichloropropane	ug/L	ND	ND		
1,2-Dibromo-3-chloropropane	ug/L	ND	ND		
1,2-Dibromoethane (EDB)	ug/L	ND	ND		
1-Chloro-2-bromopropane (S)	%	103	91		

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## QUALIFIERS

Project: Steady Simmons 18856  
Pace Project No.: 92597842

---

### DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

### ANALYTE QUALIFIERS

C0 Result confirmed by second analysis.

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**QUALITY CONTROL DATA CROSS REFERENCE TABLE**

Project: Steady Simmons 18856  
Pace Project No.: 92597842

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92597842001	WSW-1	EPA 504.1	690692	EPA 504.1	690718
92597842002	WSW-2	EPA 504.1	690692	EPA 504.1	690718
92597842003	WSW-4	EPA 504.1	690692	EPA 504.1	690718
92597842004	WSW-5	EPA 504.1	690692	EPA 504.1	690718
92597842005	WSW-9	EPA 504.1	690692	EPA 504.1	690718
92597842006	WSW DUP	EPA 504.1	690692	EPA 504.1	690718
92597842007	WSW-FB	EPA 504.1	690692	EPA 504.1	690718
92597842001	WSW-1	EPA 524.2	690397		
92597842002	WSW-2	EPA 524.2	690397		
92597842003	WSW-4	EPA 524.2	690397		
92597842004	WSW-5	EPA 524.2	690397		
92597842005	WSW-9	EPA 524.2	690397		
92597842006	WSW DUP	EPA 524.2	690397		
92597842007	WSW-FB	EPA 524.2	690397		
92597842008	WSW TB	EPA 524.2	690397		
92597842001	WSW-1	EPA 8260D	690222		
92597842002	WSW-2	EPA 8260D	690222		
92597842003	WSW-4	EPA 8260D	690222		
92597842004	WSW-5	EPA 8260D	690222		
92597842005	WSW-9	EPA 8260D	690222		
92597842006	WSW DUP	EPA 8260D	690222		
92597842007	WSW-FB	EPA 8260D	690222		
92597842008	WSW TB	EPA 8260D	690222		

**REPORT OF LABORATORY ANALYSIS**

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**Pace Analytical** CHAIN-OF-CUSTODY Analytical Request Document

Company: SCDHEC Address: 2600 Bull St Report To: R Dunn Copy To: [Redacted]

Billing Information: Email To: [Redacted] Site Collection Info/Address: [Redacted] State: [Redacted] County/City: [Redacted] Time/Zone Collected: [Redacted]

Customer Project Name/Number: Steady Gimmox Site/Facility ID #: 16836 Compliance Monitoring? [ ] Yes [ ] No DW PWS ID #: PCA: 65094 DW Location Code: [Redacted] Immediately Packed on Ice: [X] Yes [ ] No Field Filtered (if applicable): [ ] Yes [ ] No Turnaround Date Required: [ ] Same Day [ ] 1-2 Day [ ] 3-4 Day [ ] 5 Day (Expedite Charges Apply) Rush: [ ] Same Day [ ] Next Day [ ] 2 Day [ ] 3 Day [ ] 4 Day [ ] 5 Day (Expedite Charges Apply) Collected By (print): [Redacted] Collected By (signature): [Redacted] Sample Disposal: [ ] Return [ ] Dispose as appropriate [ ] Archive [ ] Hold

\* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (S), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab		Collected (or Composite Start)		Composite End	Date	Time	Res Cl	# of Ctns
		Comp	Grab	Date	Time					
WSW-1	DW	6	6	4/6/22	12:21				9	9
WSW-2	W	6	6	4/6/22	12:33				9	9
WSW-3	-	6	6	4/6/22	12:35				9	9
WSW-4	DW	6	6	4/6/22	12:35				9	9
WSW-5	W	6	6	4/6/22	12:33				9	9
WSW-6	-	6	6	4/6/22	12:33				9	9
WSW-7	-	6	6	4/6/22	12:33				9	9
WSW-8	DW	6	6	4/6/22	12:33				9	9
WSW-9	W	6	6	4/6/22	12:33				9	9
WSW-DW	DW	6	6	4/6/22	12:33				9	9

Customer Remarks / Special Conditions / Possible Hazards: Type of Ice Used: [X] Wet [ ] Blue [ ] Dry [ ] None Packing Material Used: BB

Lab Tracking #: 2517646 SHORT HOLDS PRESENT (<72 hours): Y [X] N/A

Requisitioned by/Company: (Signature) [Redacted] Received by/Company: (Signature) Josh Matias/Pace  
 Requisitioned by/Company: (Signature) [Redacted] Received by/Company: (Signature) [Redacted]  
 Requisitioned by/Company: (Signature) [Redacted] Received by/Company: (Signature) [Redacted]

LAB USE ONLY - Affix Workorder/Chain Label Here or List Pace Workorder Number or WO#: 92597842

Container Preservative: ALL SH

Analyses: [Redacted]

Lab Profile/Line:	Lab Sample # / Comments:
Custody Seals Present/Intact: Y [X] N [ ]	92597842
Custody Signatures Present: Y [X] N [ ]	
Collector Signatures Present: Y [X] N [ ]	
Bottles Intact: Y [X] N [ ]	
Correct Bottles: Y [X] N [ ]	
Sufficient Volume: Y [X] N [ ]	
Vials Received on Ice: Y [X] N [ ]	
Vials Resealed Acceptable: Y [X] N [ ]	
USDA Registered Soils: Y [X] N [ ]	
Samples in Holding Line: Y [X] N [ ]	
Residual Chlorine Present: Y [X] N [ ]	
Cl Strips: Y [X] N [ ]	
Sample pH Acceptable: Y [X] N [ ]	
pH Strips: Y [X] N [ ]	
Sulfide Present: Y [X] N [ ]	
Lead Acetate Strips: Y [X] N [ ]	

Lab Sample Temperature Info: Temp Blank Received: Y [X] N [ ] Therm ID#: [Redacted] Cooler 1 Temp Upon Receipt: [Redacted] Cooler 1 Therm Corr. Factor: [Redacted] Cooler 1 Corrected Temp: [Redacted] Comments: Trip Blank Received: Y [X] N [ ] MeOH TSP Other Non Conformance(s): YES [X] NO [ ] Page: of:

\*\* Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other



\*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

\*\*Bottom half of box is to list number of bottles

Project # **WO# : 92597842**  
 PM: AMB Due Date: 04/13/22  
 CLIENT: 92-SCDHEC

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU- Wide-mouthed Glass jar Unpreserved	AG1U- 1 liter Amber Unpreserved (N/A) (Cl-)	AG1H- 1 liter Amber HCl (pH < 2)	AG3U- 250 mL Amber Unpreserved (N/A) (Cl-)	AG1S- 1 liter Amber H2SO4 (pH < 2)	AG3S- 250 mL Amber H2SO4 (pH < 2)	AG3A(DG3A)-250 mL Amber NH4Cl (N/A)(Cl-)	DG9H- 40 mL VOA HCl (N/A)	VG9T- 40 mL VOA Na2S2O3 (N/A)	VG9U- 40 mL VOA Unpreserved (N/A)	DG9F- 40 mL VOA H3PO4 (N/A)	VOAK (3 vials per kit)-5035 kit (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A - lab)	SP2T-250 mL Sterile Plastic (N/A - lab)	BP3A-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U- 100 mL Amber Unpreserved vials (N/A)	V5GU- 20 mL Scintillation vials (N/A)	DG9U- 40 mL Amber Unpreserved vials (N/A)	
1	/	/	/	/	/	/	/	/	/	/	/	/	/	/	63	/	/	/	/	/	/	/	/	/	/	/	/	/
2	/	/	/	/	/	/	/	/	/	/	/	/	/	/	63	/	/	/	/	/	/	/	/	/	/	/	/	/
3	/	/	/	/	/	/	/	/	/	/	/	/	/	/	63	/	/	/	/	/	/	/	/	/	/	/	/	/
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9	/	/	/	/	/	/	/	/	/	/	/	/	/	/	63	/	/	/	/	/	/	/	/	/	/	/	/	/
10	/	/	/	/	/	/	/	/	/	/	/	/	/	/	63	/	/	/	/	/	/	/	/	/	/	/	/	/
11	/	/	/	/	/	/	/	/	/	/	/	/	/	/	63	/	/	/	/	/	/	/	/	/	/	/	/	/
12	/	/	/	/	/	/	/	/	/	/	/	/	/	/	63	/	/	/	/	/	/	/	/	/	/	/	/	/

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers).

April 13, 2022

Mr. Bryan Shane  
Midlands Environmental  
PO Box 854  
Lexington, SC 29071

RE: Project: Steady Simmins 18856 GAC  
Pace Project No.: 92597816

Dear Mr. Shane:

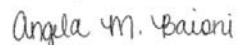
Enclosed are the analytical results for sample(s) received by the laboratory on April 06, 2022. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Charlotte

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Angela Baioni  
angela.baioni@pacelabs.com  
(704)875-9092  
Project Manager

Enclosures

cc: Mr. Jeff Coleman, Midlands Environmental  
Mr. Kyle Pudney, Midlands Environmental



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: Steady Simmins 18856 GAC

Pace Project No.: 92597816

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**Pace Analytical Services Charlotte**

South Carolina Laboratory ID: 99006

9800 Kinsey Ave. Ste 100, Huntersville, NC 28078

North Carolina Drinking Water Certification #: 37706

North Carolina Field Services Certification #: 5342

North Carolina Wastewater Certification #: 12

South Carolina Laboratory ID: 99006

South Carolina Certification #: 99006001

South Carolina Drinking Water Cert. #: 99006003

Florida/NELAP Certification #: E87627

Kentucky UST Certification #: 84

Louisiana DoH Drinking Water #: LA029

Virginia/VELAP Certification #: 460221

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## REPORT OF LABORATORY ANALYSIS

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### SAMPLE SUMMARY

Project: Steady Simmins 18856 GAC  
Pace Project No.: 92597816

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Lab ID	Sample ID	Matrix	Date Collected	Date Received
92597816001	GAC	Water	04/04/22 11:40	04/06/22 11:50

### REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: Steady Simmins 18856 GAC  
Pace Project No.: 92597816

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92597816001	GAC	EPA 8011	AP2	2	PASI-C
		EPA 8260D	CL	20	PASI-C

PASI-C = Pace Analytical Services - Charlotte

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: Steady Simmins 18856 GAC

Pace Project No.: 92597816

Sample: GAC		Lab ID: 92597816001		Collected: 04/04/22 11:40	Received: 04/06/22 11:50	Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8011 GCS EDB and DBCP</b>									
Analytical Method: EPA 8011 Preparation Method: EPA 8011									
Pace Analytical Services - Charlotte									
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.0076	1	04/08/22 11:49	04/08/22 18:33	106-93-4	
<b>Surrogates</b>									
1-Chloro-2-bromopropane (S)	90	%	60-140		1	04/08/22 11:49	04/08/22 18:33	301-79-56	
<b>8260 MSV</b>									
Analytical Method: EPA 8260D									
Pace Analytical Services - Charlotte									
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		04/07/22 22:52	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		04/07/22 22:52	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		04/07/22 22:52	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		04/07/22 22:52	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	91.0	1		04/07/22 22:52	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		04/07/22 22:52	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		04/07/22 22:52	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	3.5	1		04/07/22 22:52	108-20-3	
Ethanol	ND	ug/L	200	144	1		04/07/22 22:52	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.8	1		04/07/22 22:52	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		04/07/22 22:52	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		04/07/22 22:52	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.1	1		04/07/22 22:52	91-20-3	
Toluene	ND	ug/L	5.0	2.0	1		04/07/22 22:52	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		04/07/22 22:52	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	4.1	1		04/07/22 22:52	179601-23-1	
o-Xylene	ND	ug/L	5.0	2.0	1		04/07/22 22:52	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	98	%	70-130		1		04/07/22 22:52	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%	70-130		1		04/07/22 22:52	17060-07-0	
Toluene-d8 (S)	101	%	70-130		1		04/07/22 22:52	2037-26-5	

### REPORT OF LABORATORY ANALYSIS

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**QUALITY CONTROL DATA**

Project: Steady Simmins 18856 GAC  
Pace Project No.: 92597816

QC Batch: 690181	Analysis Method: EPA 8260D
QC Batch Method: EPA 8260D	Analysis Description: 8260 MSV SC
	Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92597816001

METHOD BLANK: 3606888 Matrix: Water  
Associated Lab Samples: 92597816001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	5.0	2.1	04/07/22 19:51	
3,3-Dimethyl-1-Butanol	ug/L	ND	100	53.9	04/07/22 19:51	
Benzene	ug/L	ND	5.0	1.7	04/07/22 19:51	
Diisopropyl ether	ug/L	ND	5.0	3.5	04/07/22 19:51	
Ethanol	ug/L	ND	200	144	04/07/22 19:51	
Ethyl-tert-butyl ether	ug/L	ND	10.0	8.5	04/07/22 19:51	
Ethylbenzene	ug/L	ND	5.0	1.8	04/07/22 19:51	
m&p-Xylene	ug/L	ND	10.0	4.1	04/07/22 19:51	
Methyl-tert-butyl ether	ug/L	ND	5.0	3.1	04/07/22 19:51	
Naphthalene	ug/L	ND	5.0	2.1	04/07/22 19:51	
o-Xylene	ug/L	ND	5.0	2.0	04/07/22 19:51	
tert-Amyl Alcohol	ug/L	ND	100	65.6	04/07/22 19:51	
tert-Amylmethyl ether	ug/L	ND	10.0	3.0	04/07/22 19:51	
tert-Butyl Alcohol	ug/L	ND	100	91.0	04/07/22 19:51	
tert-Butyl Formate	ug/L	ND	50.0	24.1	04/07/22 19:51	
Toluene	ug/L	ND	5.0	2.0	04/07/22 19:51	
Xylene (Total)	ug/L	ND	5.0	5.0	04/07/22 19:51	
1,2-Dichloroethane-d4 (S)	%	99	70-130		04/07/22 19:51	
4-Bromofluorobenzene (S)	%	95	70-130		04/07/22 19:51	
Toluene-d8 (S)	%	99	70-130		04/07/22 19:51	

LABORATORY CONTROL SAMPLE: 3606889

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	50	51.9	104	70-130	
3,3-Dimethyl-1-Butanol	ug/L	1000	934	93	70-130	
Benzene	ug/L	50	48.7	97	70-130	
Diisopropyl ether	ug/L	50	49.5	99	70-130	
Ethanol	ug/L	2000	2060	103	70-130	
Ethyl-tert-butyl ether	ug/L	100	102	102	70-130	
Ethylbenzene	ug/L	50	51.2	102	70-130	
m&p-Xylene	ug/L	100	105	105	70-130	
Methyl-tert-butyl ether	ug/L	50	53.4	107	70-130	
Naphthalene	ug/L	50	47.5	95	70-130	
o-Xylene	ug/L	50	52.0	104	70-130	
tert-Amyl Alcohol	ug/L	1000	1070	107	70-130	
tert-Amylmethyl ether	ug/L	100	108	108	70-130	
tert-Butyl Alcohol	ug/L	500	501	100	70-130	
tert-Butyl Formate	ug/L	400	386	96	70-130	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

**REPORT OF LABORATORY ANALYSIS**

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**QUALITY CONTROL DATA**

Project: Steady Simmins 18856 GAC  
Pace Project No.: 92597816

LABORATORY CONTROL SAMPLE: 3606889

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Toluene	ug/L	50	49.6	99	70-130	
Xylene (Total)	ug/L	150	157	105	70-130	
1,2-Dichloroethane-d4 (S)	%			96	70-130	
4-Bromofluorobenzene (S)	%			100	70-130	
Toluene-d8 (S)	%			97	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3606890 3606891

Parameter	Units	92597809001		3606890		3606891		% Rec	% Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Result	MSD Spike Conc.	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
1,2-Dichloroethane	ug/L	ND	20	20	22.1	22.1	111	111	70-137	0	30		
3,3-Dimethyl-1-Butanol	ug/L	ND	400	400	344	347	86	87	39-157	1	30		
Benzene	ug/L	ND	20	20	20.9	21.5	104	108	70-151	3	30		
Diisopropyl ether	ug/L	ND	20	20	21.4	21.8	107	109	63-144	2	30		
Ethanol	ug/L	ND	800	800	1000	1000	125	126	39-176	0	30		
Ethyl-tert-butyl ether	ug/L	ND	40	40	40.7	40.6	102	102	66-137	0	30		
Ethylbenzene	ug/L	ND	20	20	21.7	22.0	109	110	66-153	1	30		
m&p-Xylene	ug/L	ND	40	40	43.4	44.2	108	110	69-152	2	30		
Methyl-tert-butyl ether	ug/L	ND	20	20	21.3	22.2	106	111	54-156	4	30		
Naphthalene	ug/L	ND	20	20	19.9	20.1	99	100	61-148	1	30		
o-Xylene	ug/L	ND	20	20	21.5	22.1	107	111	70-148	3	30		
tert-Amyl Alcohol	ug/L	ND	400	400	365	392	91	98	54-153	7	30		
tert-Amylmethyl ether	ug/L	ND	40	40	39.6	40.7	99	102	69-139	3	30		
tert-Butyl Alcohol	ug/L	ND	200	200	253	255	127	128	43-188	1	30		
tert-Butyl Formate	ug/L	ND	160	160	57.4	55.2	36	34	10-170	4	30		
Toluene	ug/L	ND	20	20	21.4	21.6	107	108	59-148	1	30		
Xylene (Total)	ug/L	ND	60	60	64.9	66.3	108	111	63-158	2	30		
1,2-Dichloroethane-d4 (S)	%						102	109	70-130				
4-Bromofluorobenzene (S)	%						102	102	70-130				
Toluene-d8 (S)	%						100	99	70-130				

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**REPORT OF LABORATORY ANALYSIS**

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**QUALITY CONTROL DATA**

Project: Steady Simmins 18856 GAC  
Pace Project No.: 92597816

QC Batch: 690328	Analysis Method: EPA 8011
QC Batch Method: EPA 8011	Analysis Description: GCS 8011 EDB DBCP
	Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92597816001

METHOD BLANK: 3607344 Matrix: Water  
Associated Lab Samples: 92597816001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	0.020	0.0075	04/08/22 15:00	
1-Chloro-2-bromopropane (S)	%	96	60-140		04/08/22 15:00	

LABORATORY CONTROL SAMPLE & LCSD: 3607345 3607346

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	0.25	0.24	0.24	95	95	60-140	1	20	
1-Chloro-2-bromopropane (S)	%				93	94	60-140			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3607348 3607349

Parameter	Units	92597809003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dibromoethane (EDB)	ug/L	ND	0.26	0.26	0.24	0.24	95	94	60-140	1	20	
1-Chloro-2-bromopropane (S)	%						92	92	60-140			

SAMPLE DUPLICATE: 3607347

Parameter	Units	92597809002 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	ND		20	
1-Chloro-2-bromopropane (S)	%	89	100			

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**REPORT OF LABORATORY ANALYSIS**

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## QUALIFIERS

Project: Steady Simmins 18856 GAC  
Pace Project No.: 92597816

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### DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Steady Simmins 18856 GAC

Pace Project No.: 92597816

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Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92597816001	GAC	EPA 8011	690328	EPA 8011	690440
92597816001	GAC	EPA 8260D	690181		

### REPORT OF LABORATORY ANALYSIS

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**CHAIN-OF-CUSTODY Analytical Request Document**

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields  
Billing information:

Company: Pace Analytical  
 Address: 3000 Bull St  
 Report To: R. Dunn  
 Copy To: \_\_\_\_\_  
 Email To: JDHEC@paceanalytical.com  
 Site Collection Info/Address: 3000 Bull St, Cary, NC  
 State: NC County/City: Cary Time/Zone Collected: AMT (ICT) (AST)  
 Site/Facility ID #: 16956 Compliance Monitoring? ( ) Yes ( ) No  
 Purchase Order #: PA 65099 DW PMS ID #: \_\_\_\_\_  
 Turnaround Date Required: \_\_\_\_\_  
 Rush: ( ) Same Day ( ) Next Day ( ) 3 Day ( ) 4 Day ( ) 5 Day ( ) Expedite Charges Apply  
 Sample Disposal: ( ) Return ( ) Dispose as appropriate ( ) Archive ( ) Hold  
 \* Matrix Codes (Insert in Matrix box below: Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipes (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

LAB USE ONLY - Affix sticker to this form. Label Here on the Back. Workorder Number or NO#: **92597816**  
 ALL  
 Container Preser: 3  
 \*\* Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other

Analyses	Lab Profile/Line:
<u>EDB 8011</u>	Lab Sample Receipt Check List: Custody Seals Present/Intact <u>Y</u> Custody Signatures Present <u>Y</u> Collector Signature Present <u>Y</u> Bottles Intact <u>Y</u> Correct Bottles <u>Y</u> Sufficient Volume <u>Y</u> Samples Received on Ice <u>Y</u> Ice Repackages Acceptable <u>Y</u> Sample Repackages Soils <u>Y</u> Sample Repackages Solids <u>Y</u> Residual Chilling Time <u>Y</u> Residual Chilling Present <u>Y</u> C3 Strips: <u>Y</u> Sample pH Acceptable <u>Y</u> pH Strips: <u>Y</u> Sulfide Present <u>Y</u> Lead Acetate Strips: <u>Y</u> LAB USE ONLY: Lab Sample # / Comments: <u>92597816</u>

Customer Sample ID	Matrix *	Comp / Grab	Collected for Composite Start	Date	Time	Composite End	Date	Time	Res Cts	# of Cts
<u>SW-1</u>	<u>GW</u>	<u>G</u>	<u>4/11/17</u>	<u>11:36</u>					<u>6</u>	<u>6</u>
<u>SW-2</u>	<u>↓</u>	<u>↓</u>	<u>11:35</u>						<u>↓</u>	<u>↓</u>
<u>SW-3</u>	<u>↓</u>	<u>↓</u>	<u>11:32</u>						<u>↓</u>	<u>↓</u>
<u>DUP</u>	<u>↓</u>	<u>↓</u>	<u>11:40</u>						<u>↓</u>	<u>↓</u>
<u>LOAC</u>	<u>↓</u>	<u>↓</u>	<u>11:42</u>						<u>↓</u>	<u>↓</u>
<u>FB</u>	<u>↓</u>	<u>↓</u>	<u>9:00</u>						<u>↓</u>	<u>↓</u>
<u>TB</u>										

Customer Remarks / Special Conditions / Possible Hazards: \_\_\_\_\_  
 Type of Site Used: Water Blue: ( ) Dry: ( ) None: ( )  
 Packing Material Used: BB  
 Radchem (samples) screened (<500 gpm): Y N: ( ) NA: ( )  
 Lab Tracking #: 2517648  
 Samples received via: FEDEX UPS: \_\_\_\_\_ Client: \_\_\_\_\_  
 Date/Time: 4/6/22 11:50 Received by/Company: (Signature) Josh Mallas/Pace  
 Date/Time: 4/6/22 17:30 Received by/Company: (Signature) Josh Mallas/Pace  
 Date/Time: \_\_\_\_\_ Received by/Company: (Signature) \_\_\_\_\_  
 Lab Sample Temperature Info:  
 Temp Blank Reagent: NA  
 Therm ID#: 92597816  
 Cooler 1 Temp Upon Receipt: 9.0C  
 Cooler 1 Therm Corr. Factor: 0.0C  
 Cooler 1 Corrected Temp: 9.0C  
 Comments: \_\_\_\_\_  
 Samples Received: ( ) ( ) ( ) ( )  
 Non-Compliance(s): YES / ( ) ( ) ( ) ( )  
 Page: 11 of: \_\_\_\_\_

**APPENDIX B:**

**TAX MAP**







**Legend**  
 Parcels  
 Roads

<b>Parcel ID</b>	052-00-05-027	<b>Alternate ID</b>	052-00-05-027	<b>Owner</b>	THOMPSON WAYNE	<b>Last 2 Sales</b>			
<b>Sec/Twp/Rng</b>	n/a	<b>ID</b>		<b>Address</b>	16657 GRAYS HWY EARLY BRANCH SC 29916	<b>Date</b>	<b>Price</b>	<b>Reason</b>	<b>Qual</b>
<b>Property Address</b>	16657 GRAYS HWY	<b>Class</b>	Rural mobile home land (legal)			4/24/2002	\$46000	n/a	Q
		<b>Acreage</b>	1.97			n/a	0	n/a	n/a
<b>District</b>	01								
<b>Brief Tax Description</b>	16657 GRAYS HWY								
	(Note: Not to be used on legal documents)								

Date created: 8/3/2021  
 Last Data Uploaded: 8/3/2021 1:46:15 AM

Developed by  **Schneider**  
 GEOSPATIAL

**APPENDIX C:  
DISPOSAL MANIFEST**



April 19, 2022

Re: Treatment of Purge Water  
Steady Simmons  
Early Branch, South Carolina  
SCDHEC Site ID Number 18856  
MECI Project Number 22-7803

To Whom It May Concern;

Midlands Environmental Consultants, Inc. is providing the following letter as certification that treatment of the referenced purge water complied with the conditions of "Proposed Conditions for Use of Portable Activated Carbon Units for the Treatment of Small Volumes of Petroleum Hydrocarbon Contaminated Groundwater", as described in the following:

Applicability:

Groundwater treated was obtained as a result development of wells and sampling.

Conditions:

1. The purge/bail water from all wells is mixed before usage of the Activated Carbon Unit.
2. No free-product was detected in any of the purge water drums.
3. Analytical results of from well sampling show average concentrations of petroleum hydrocarbon constituents less than 5000 parts per billion (ppb) Benzene and less than 20,000 ppb total BTEX.
4. The existing carbon pack will be replaced/reactivated every 5,000 gallons.
5. Record of usage is maintained by Contractor.
6. Any and all recommendations and conditions issued by the Manufacturer have been adhered to.
7. Any and all recommendations and conditions (even on a site by site basis) issued by the SCDHEC must be adhered to.

All purge waters were treated on-site using an up-flow treatment drum loaded with 80 pounds of activated carbon. Carbon will be loaded to a maximum of 3 pounds of total organic compounds or 5,000 gallons of development/purge water, whichever occurs first.

**A total of 102.00 gallons were treated on April 4, 2022 at the referenced site.**

Midlands Environmental also tracks cumulative organic compounds adsorbed on the activated carbon to ensure the capacity of carbon mass is not over-charged. This data is available upon request.

Should you have any questions or comments, please contact the undersigned.

Sincerely,  
Midlands Environmental Consultants, Inc.

A handwritten signature in black ink, appearing to read "J. Coleman".

Jeff L. Coleman  
Senior Scientist

**APPENDIX D:  
ACCESS AGREEMENTS**

**RIGHT-OF-ENTRY FORM  
PROPERTY OWNER**

UST Permit # 18856

**If you are the Property Owner or are the authorized representative for that person, but did not own the former or existing underground storage tanks at the time the release was reported, please complete this form.**

I, WAYNE THOMPSON, certify that I am the legal owner of the property identified below or serve as the authorized representative for the property owner. I authorize the South Carolina Department of Health and Environmental Control (DHEC), or a contractor selected by DHEC, to enter this property at reasonable times only to conduct assessment and corrective action activities, as required. The contractor will be designated as the contractor for the UST owner or operator for only the required environmental site rehabilitation activities. Compensation to the contractor will be from the SUPERB Account and I will have no obligation to pay the contractor. I understand that DHEC or its contractor will notify me of all activities that are necessary prior to their initiation and will promptly provide to me a summary of the data upon request.

Name of Facility Steady Simmons Phone # \_\_\_\_\_

Street Address of Facility: 16661 Grays Highway

Town, City, District, Suburb Early Branch, SC 29916-8016

Name of nearest intersecting street, road, highway, alley U.S. Hwy # 278

Is this facility within the city limits? (yes or no) NO

Does a public water or sewer utility service this facility? (yes or no) NO

If no, please provide the name and phone number of a person that we can contact that can assist in the location of private water and septic tank lines WAYNE THOMPSON  
phone number (803) 398-7718.

Is the property currently leased or rented to someone? (yes or no) NO

If yes, please provide their name N/A and phone number N/A  
\_\_\_\_\_ and let them know about the pending site rehabilitation activities. If vehicles or other mobile structures are parked over the monitoring wells, they should be moved before DHEC's contractor arrives at the site.

NAME of Property owner (Please Print): WAYNE THOMPSON

Phone Number (home) <sup>(cell)</sup> (803) 398-7718 (work) (NONE)

Current Mailing Address: 16657 GRAYS HIGHWAY, EARLY BRANCH, SC  
29916-8016

Signature of Property Owner Wayne Thompson

Witness: Bruce Johnson

Date: May 10, 2018 Month \_\_\_\_\_ Day \_\_\_\_\_ Year \_\_\_\_\_

**Please return to Kathryn H. Butler, UST Management Division, 2600 Bull Street, SC 29201**

Disclaimer: Personal Information provided on this document is subject to public scrutiny or release.



**APPENDIX E:  
DATA VERIFICATION CHECKLIST**



**Contractor Checklist**

<b>Item#</b>	<b>Item</b>	<b>Yes</b>	<b>No</b>	<b>N/A</b>
1	Are Facility Name, Permit #, and address provided?	X		
2	Is UST Owner/Operator name, address, & phone number provided?	X		
3	Is name, address, & phone number of current property owner provided?	X		
4	Is the DHEC Certified UST Site Rehabilitation Contractor's Name, Address, telephone number, and certification number provided?	X		
5	Is the name, address, telephone number, and certification number of the well driller that installed borings/monitoring wells provided?			X
6	Is the name, address, telephone number, and certification number of the certified laboratory(ies) performing analytical analyses provided?	X		
7	Has the facility history been summarized?			X
8	Has the regional geology and hydrogeology been described?			X
9	Are the receptor survey results provided as required?			X
10	Has current use of the site and adjacent land been described?	X		
11	Has the site-specific geology and hydrogeology been described?			X
12	Has the primary soil type been described?			X
13	Have field screening results been described?			X
14	Has a description of the soil sample collection and preservation been detailed?			X
15	Has the field screening methodology and procedure been detailed?			X
16	Has the monitoring well installation and development dates been provided?			X
17	Has the method of well development been detailed?			X
18	Has justification been provided for the locations of the monitoring wells?			X
19	Have the monitoring wells been labeled in accordance with the UST QAPP guidelines?			X
20	Has the groundwater sampling methodology been detailed?	X		
21	Have the groundwater sampling dates and groundwater measurements been provided? (Table 2 & Figure 3)	X		
22	Has the purging methodology been detailed?	X		
23	Has the volume of water purged from each well been provided along with measurements to verify that purging is complete? (Appendix A)	X		
24	If free-product is present, has the thickness been provided?			X
25	Does the report include a brief discussion of the assessment done and the results?	X		
26	Does the report include a brief discussion of the aquifer evaluation and results?			X
27	Does the report include a brief discussion of the fate & transport models used?			X

Item#	Item	Yes	No	N/A
28	Are the site-conceptual model tables included? (Tier 1 Risk Evaluation)			X
29	Have the exposure pathways been analyzed? (Tier 2 Risk Evaluation)			X
30	Have the SSTLs for each compound and pathway been calculated? (Tier 2 Risk Evaluation)			X
31	Have recommendations for further action been provided and explained?			X
32	Has the soil analytical data for the site been provided in tabular format?			X
33	Has the potentiometric data for the site been provided in tabular format? (Table 2)	X		
34	Has the current and historical laboratory data been provided in tabular format? (Table 1)			X
35	Have the aquifer characteristics been provided and summarized on the appropriate form?			X
36	Have the Site conceptual model tables been included? (Tier 1 Risk Evaluation)			X
37	Has the topographic map been provided with all required elements? (Figure 1)	X		
38	Has the site base map been provided with all required elements? (Figure 2)	X		
39	Have the CoC site maps been provided? (Figures 3)	X		
40	Has the site potentiometric map been provided? (Figure 4)	X		
41	Have the geologic cross-sections been provided?			X
42	Have maps showing the predicted migration of the CoCs through time been provided? (Tier 2 Risk Evaluation)			X
43	Has the site survey been provided and include all necessary elements?			X
44	Have the sampling logs, chain of custody forms, and the analytical data package been included with all required elements? (Appendix A)	X		
45	Is the laboratory performing the analyses properly certified?	X		
46	Has the tax map been included with all necessary elements? (Appendix B)			X
47	Have the soil boring/field screening logs been provided?			X
48	Have the well completion logs and SCDHEC Form 1903 been provided?			X
49	Have the aquifer evaluation forms, data, graphs, equations, etc. been provided?			X
50	Have the disposal manifests been provided? (Appendix C)			X
51	Has a copy of the local zoning regulations been provided?			X
52	Has all fate and transport modeling been provided?			X
53	Have copies of all access agreements obtained by the contractor been provided? (Appendix D)			X
54	Has a copy of this form been attached to the final report and are explanations for any missing or incomplete data been provided? (Appendix E)	X		

**APPENDIX F:  
RECEPTOR PHOTOS**



SW-1



SW-2



SW-3



WSW-2 Sample Location









WSW-4

# WSW-4 Sample Location





WSV-5

Sample Location



WSW-9 Sample Location

